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THE ARCHITECTS' JOURNAL

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Standard contents

every issue does not necessarily contain all these contents but they are the regular features which continually recur

NEWS and COMMENT
Diary
News
Astragal's Notes and Topics
Letters
Societies and Institutions

TECHNICAL SECTION
Information Sheets
Information Centre
Current Technique
Questions and Answers
Prices
The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments Wanted and Vacant

[3108] [VOL. 120

THE ARCHITECTURAL PRESS
11 and 13, Queen Anne's Gate, Westminster, S.W.1. 'Phone: Whitehall 0611

Price 1s. 0d.
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square.	Sloane 1601/3158
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street,	W.C.1. Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street,	Strand, W.C.2. Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 14, Great James' Street, W.C.2.	Chancery 7718
LDA	Lead Development Association. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
LSPC	Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
MARS	Modern Architectural Research Group (English Branch of CIAM). Secretary:	Trevor Dannatt, 6, Fitzroy Square, W.1. Euston 7171
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Savile Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94-98, Petty France, S.W.1. Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1.	Welbeck 0619
NCBMP	National Council of Building Material Producers. 10 Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street,	W.1. Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives. Federal House,	Cedars Road, Clapham, S.W.4. Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate,	S.W.1. Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1. Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Fountainbridge 7631
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House,	Grosvenor Gardens, S.W.1. Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1.	Langham 7616
SNHTPC	Scottish National Housing. Town Planning Council.	Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5051
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1.	Whitehall 4341
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford	Oxford 47988

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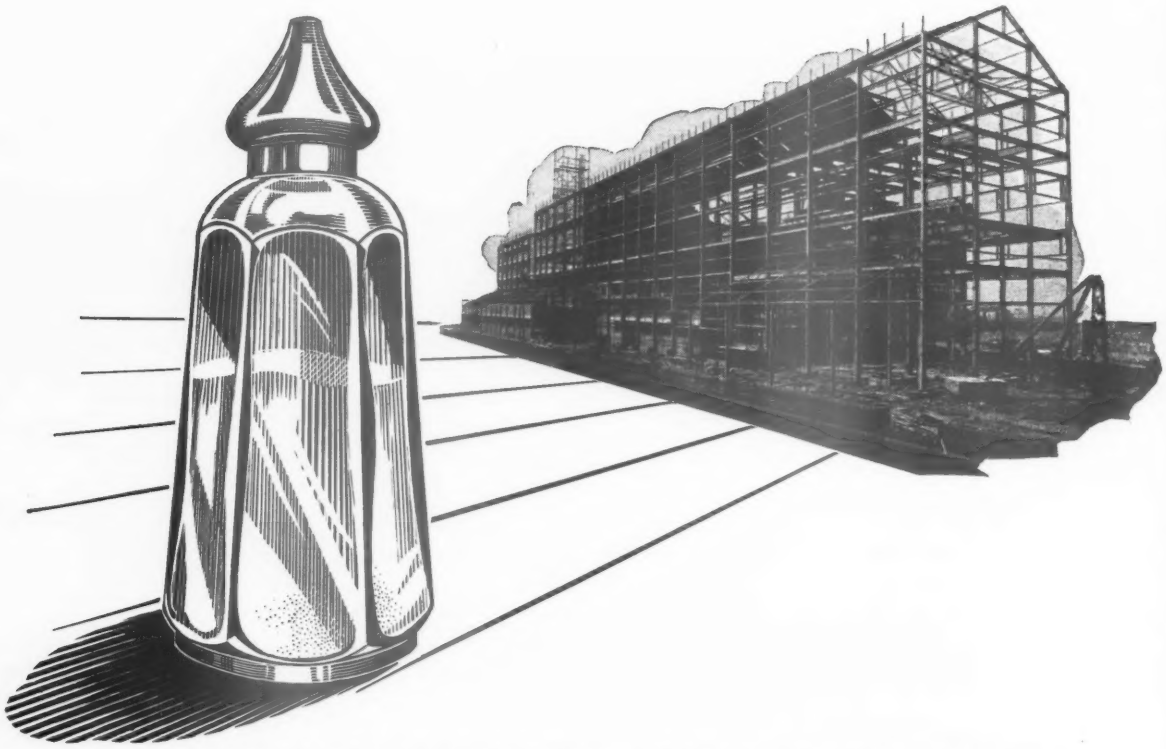
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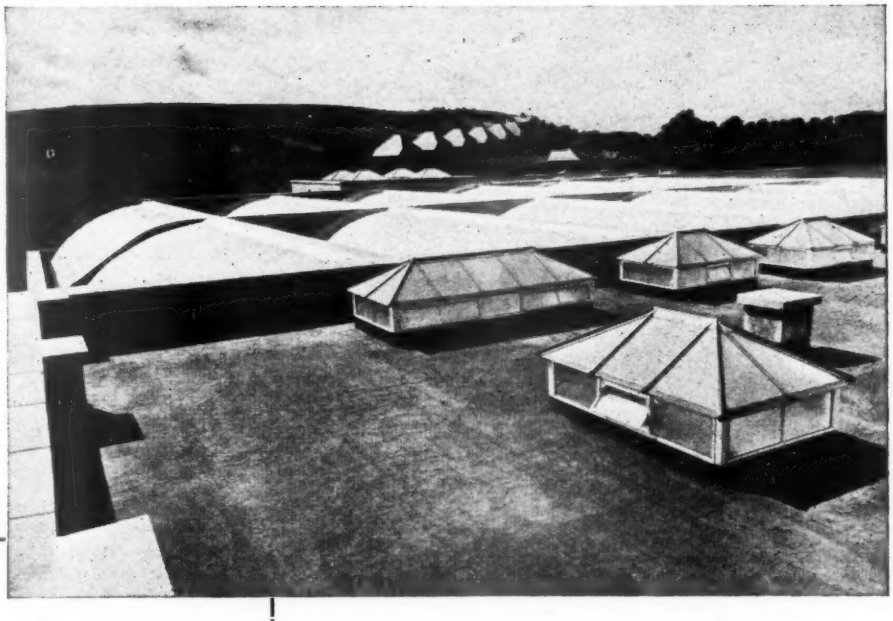
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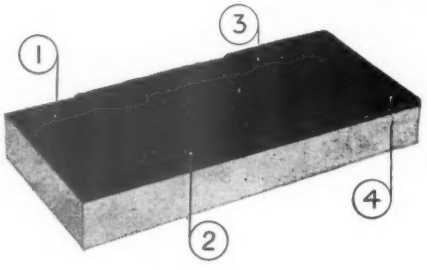
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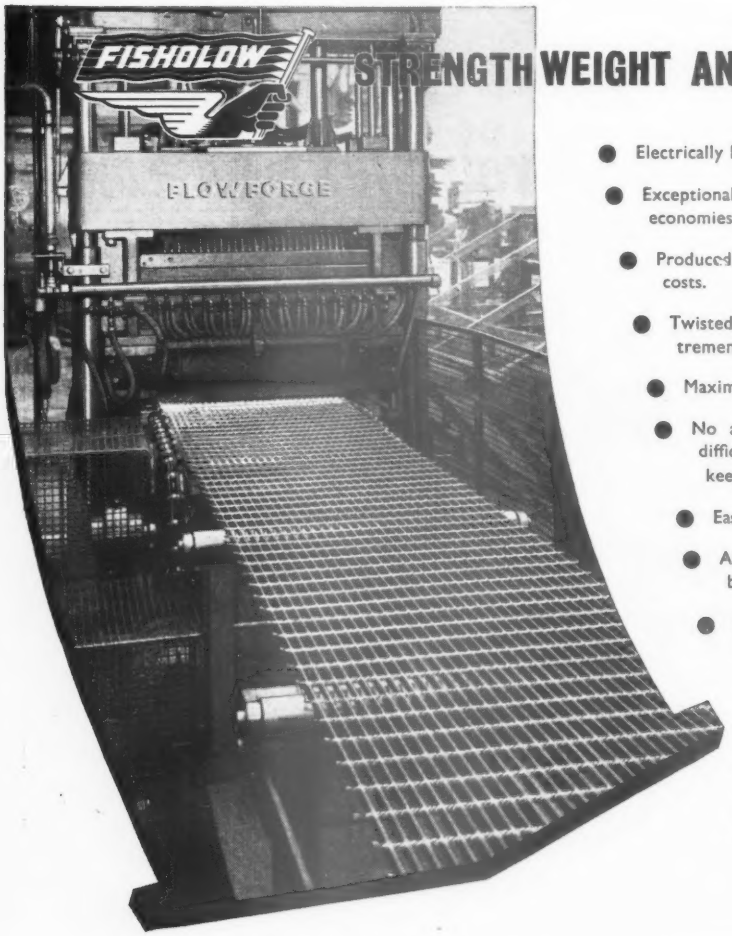
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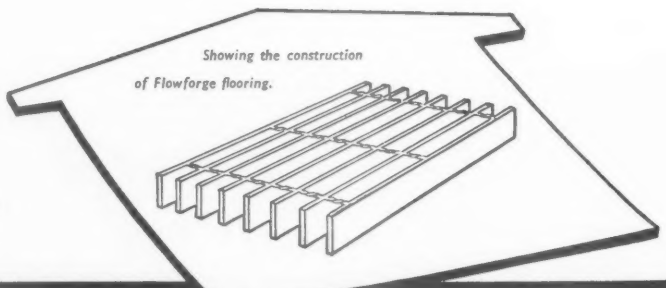


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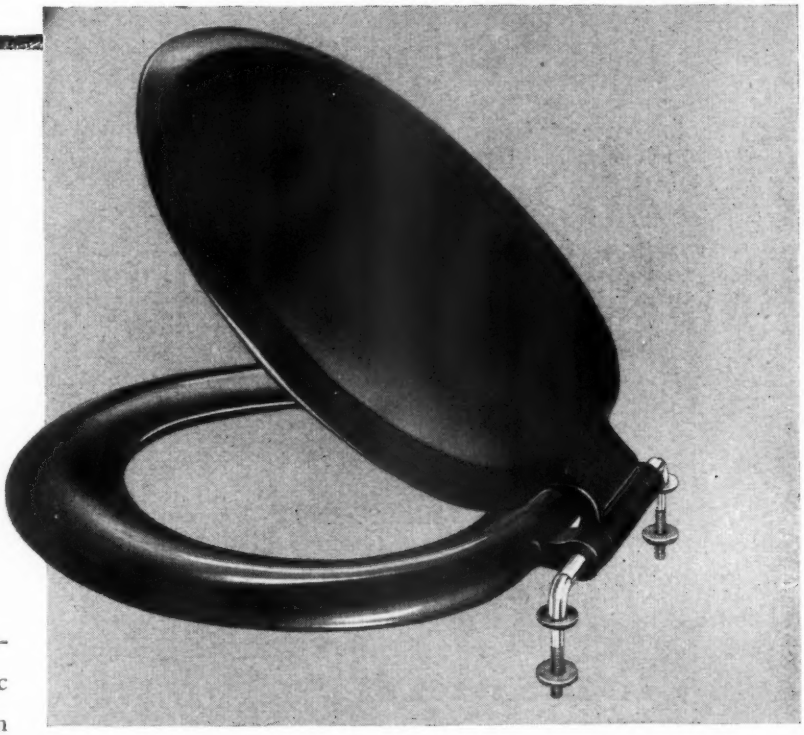


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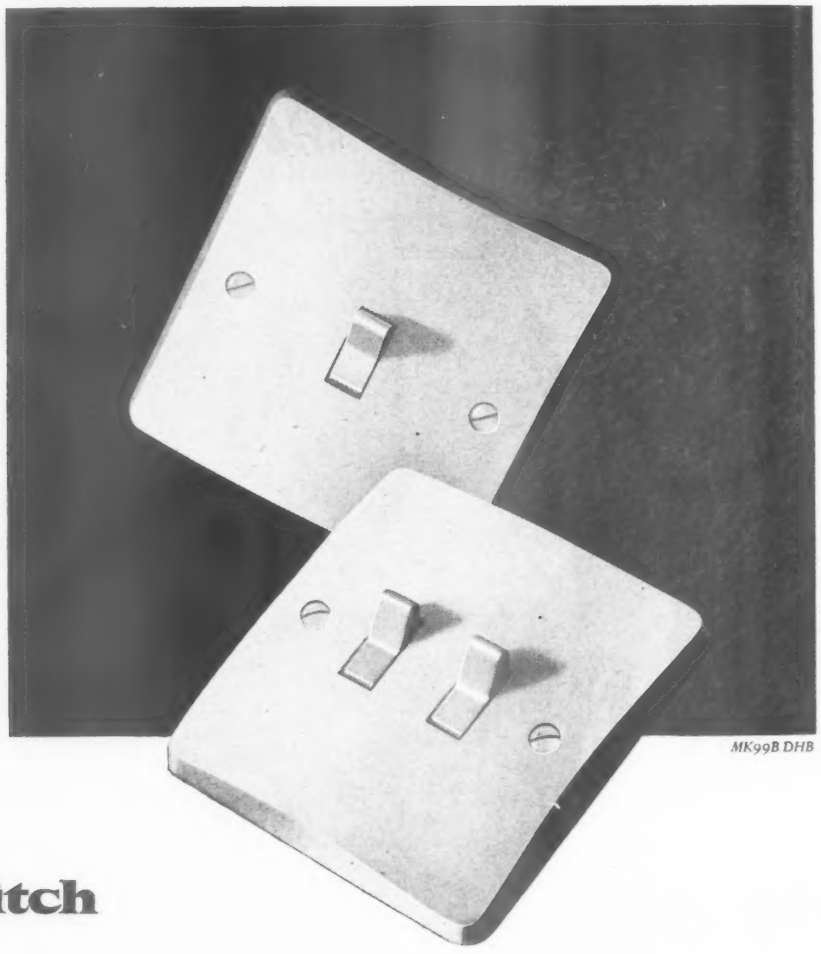
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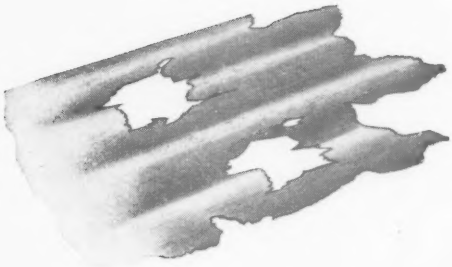
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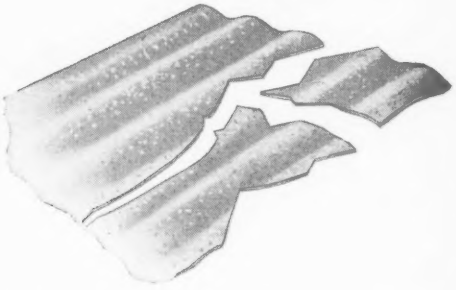
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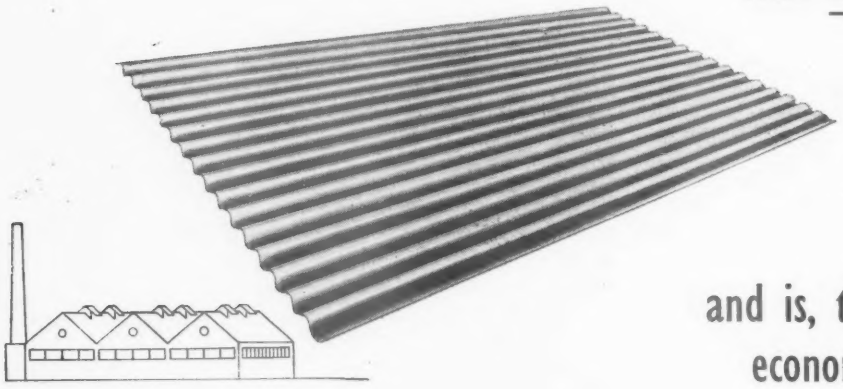
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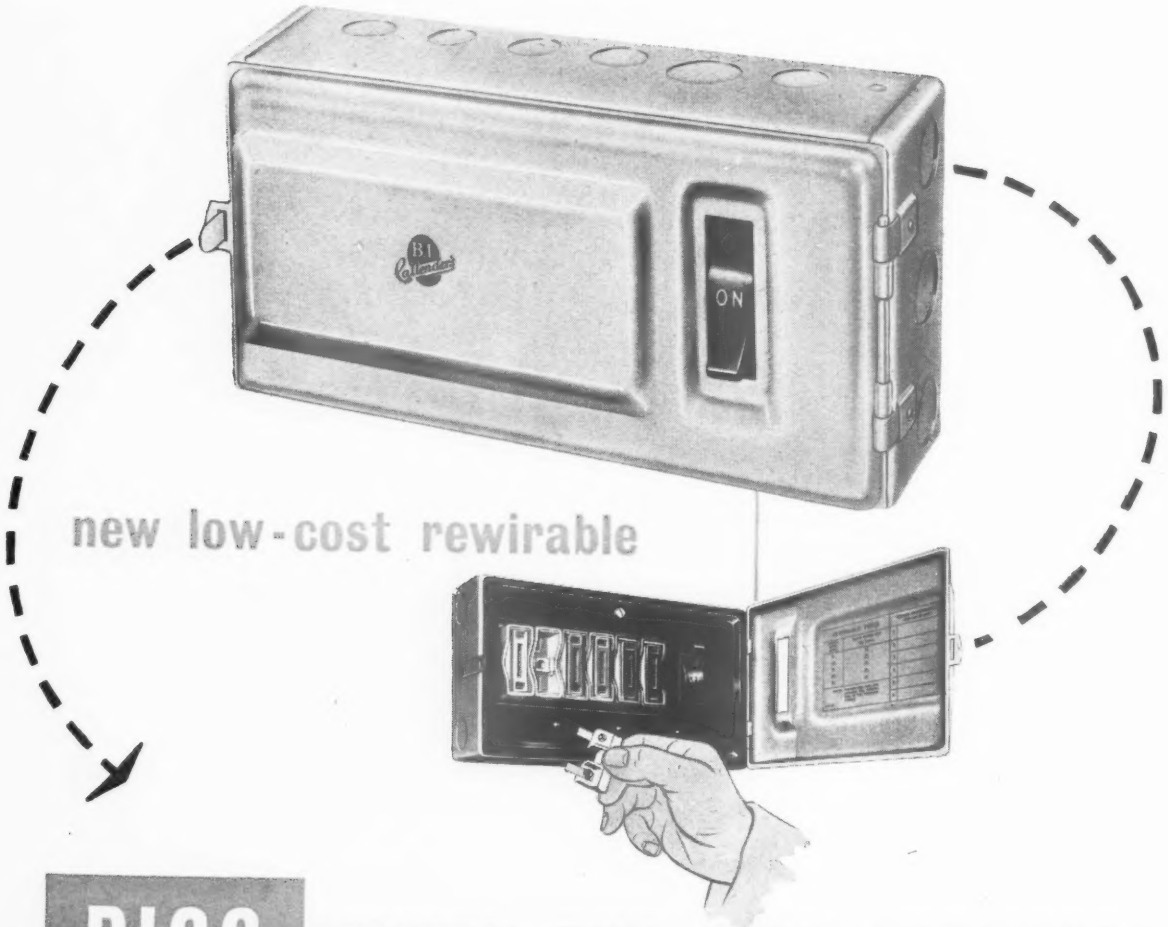
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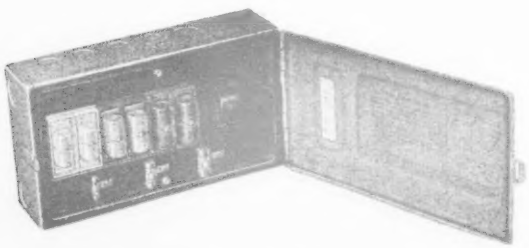
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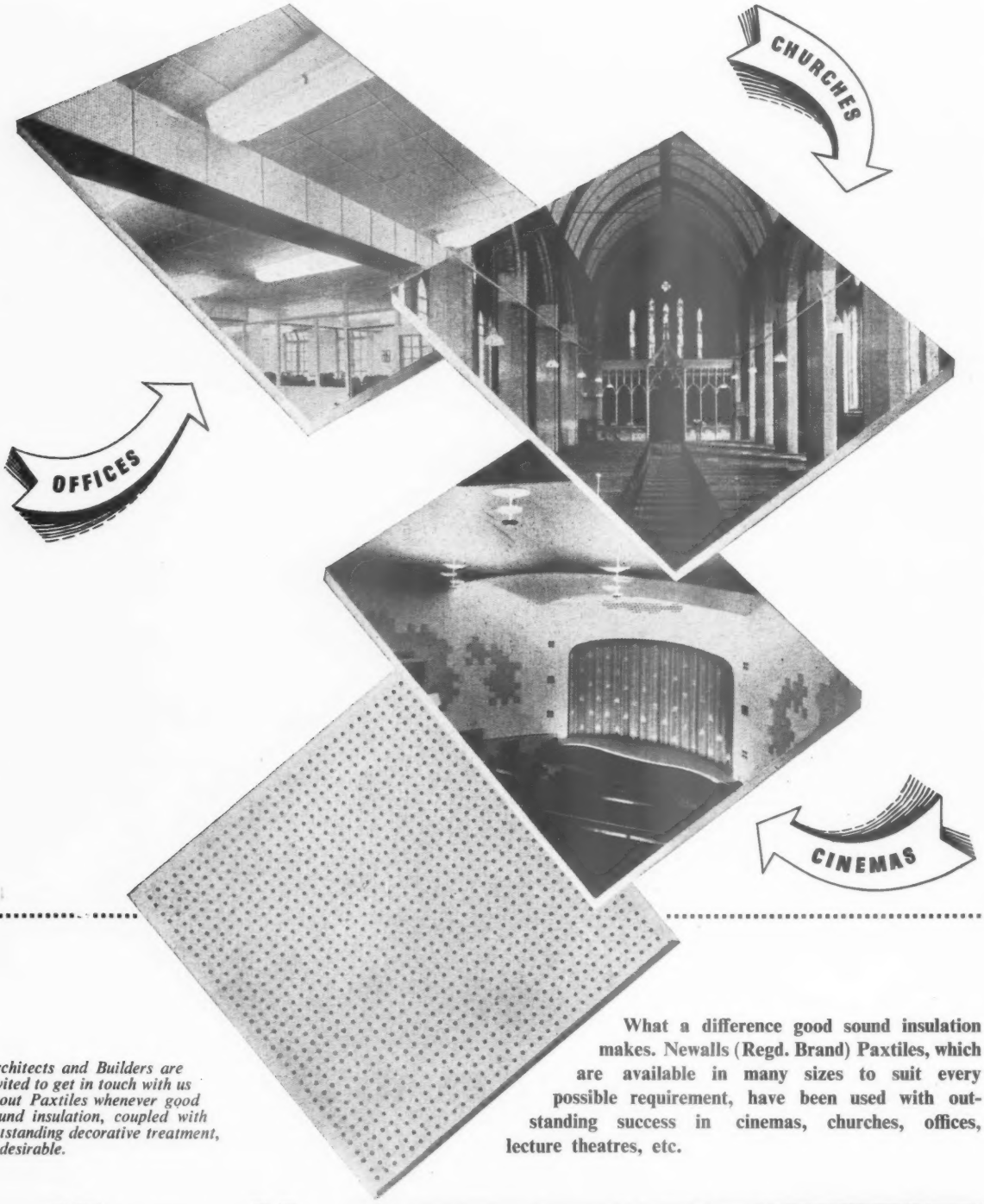
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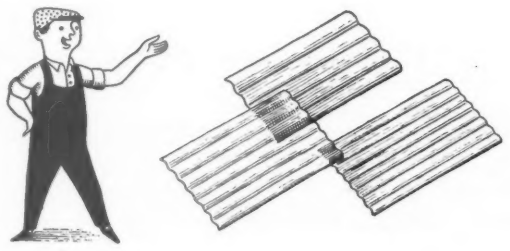
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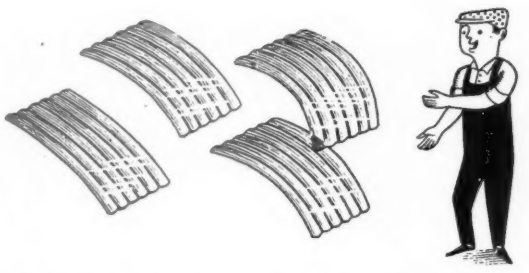
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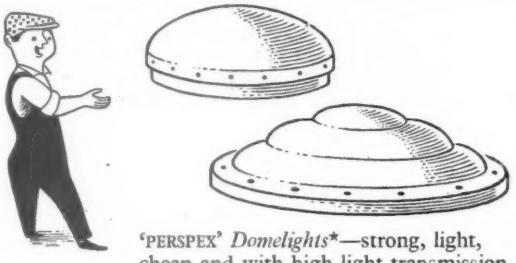
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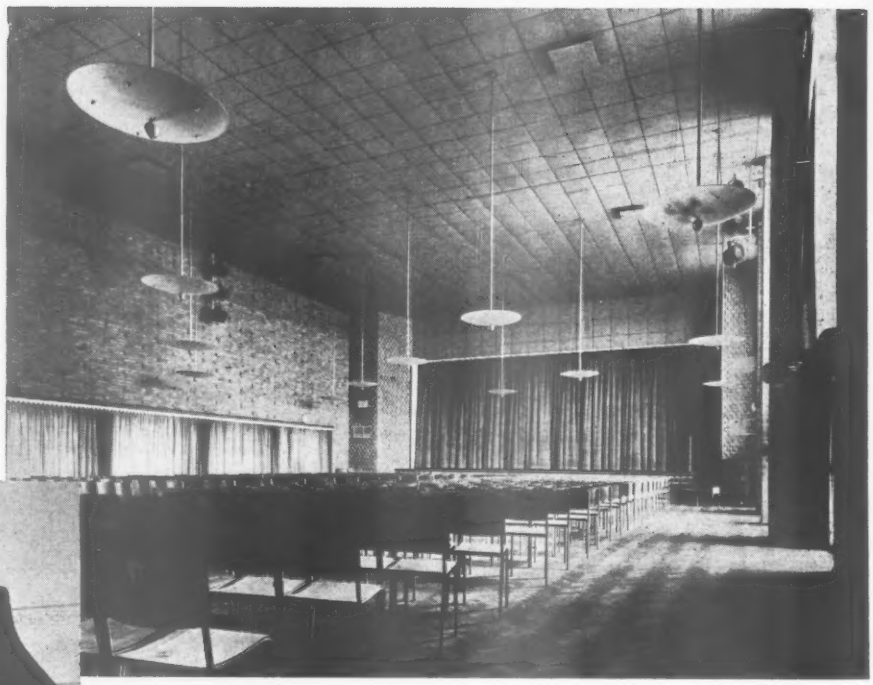
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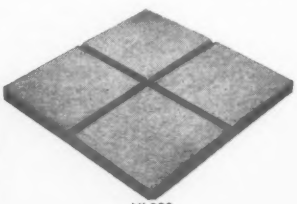


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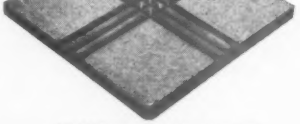
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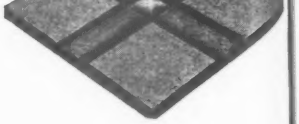


VL500

VL502A



VL502B (As VL502A, but with three instead of two beads)

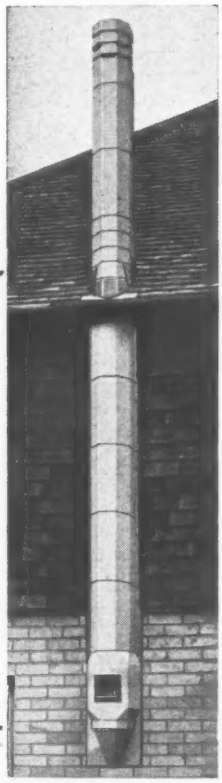


VL503

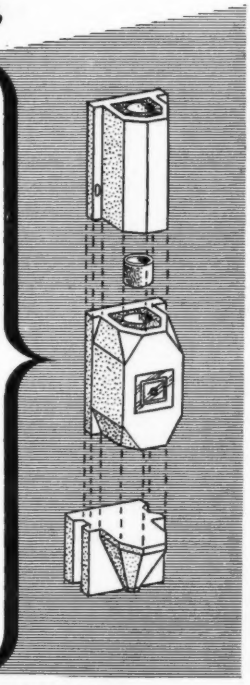
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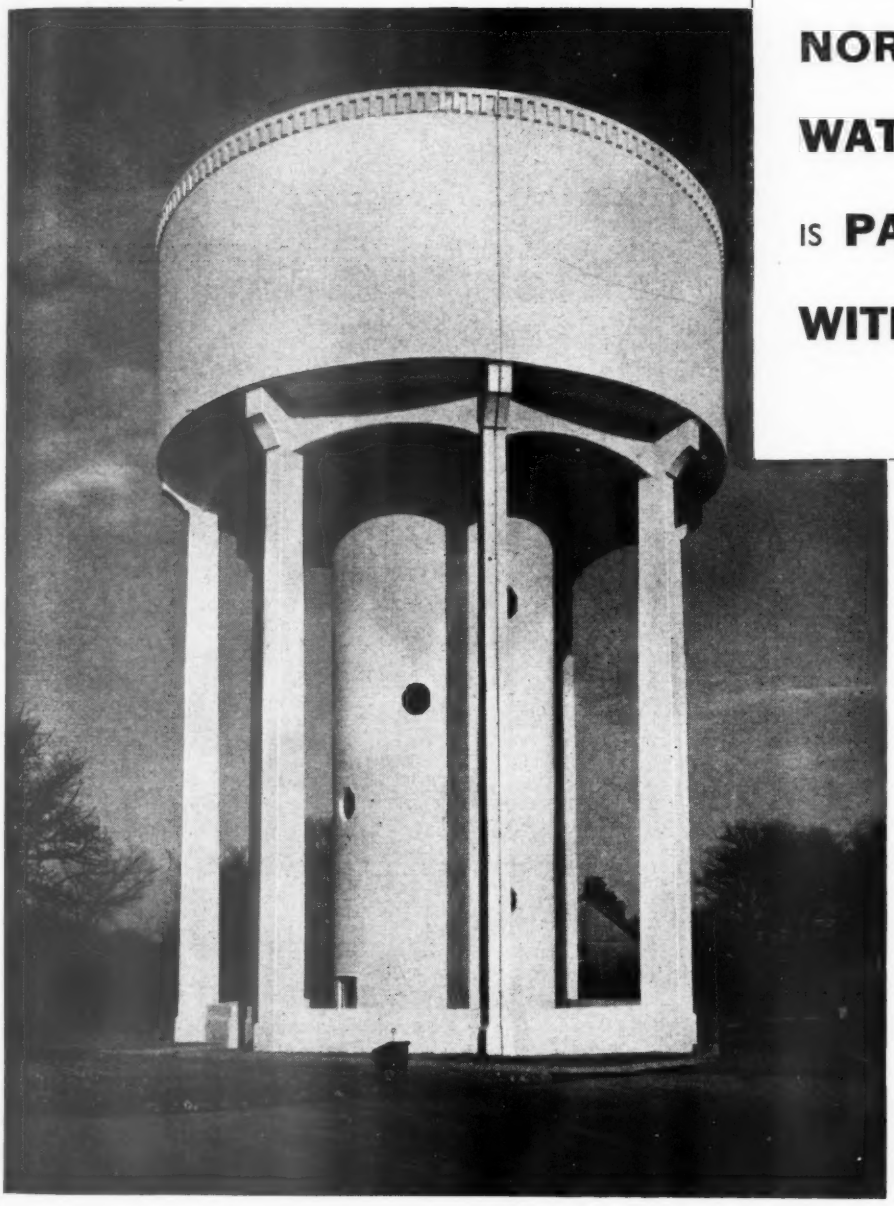
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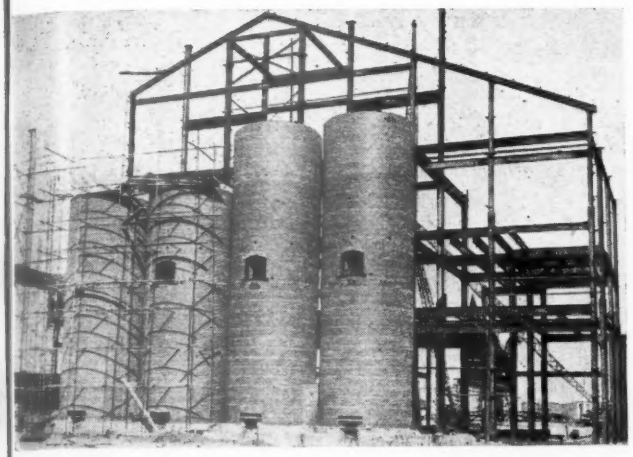
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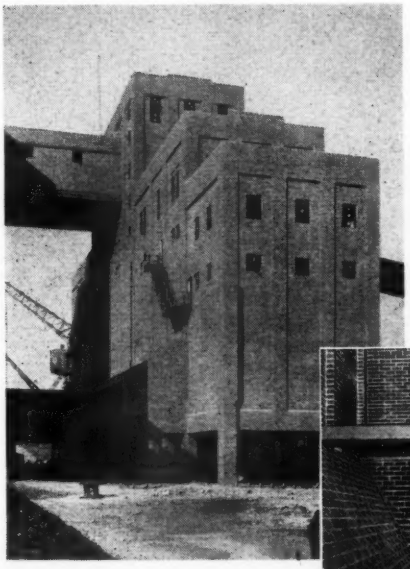
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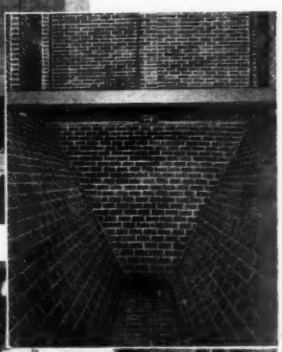
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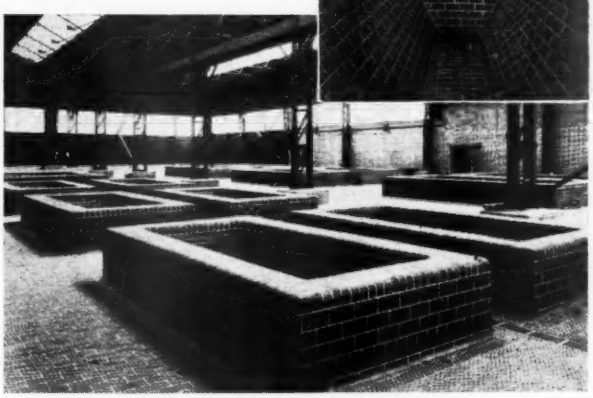
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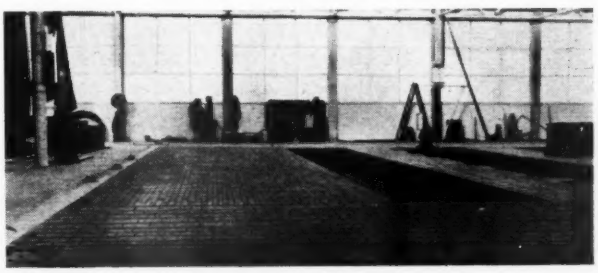
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Left and below : Coke bunkers at a gas works. Contractors : Woodall - Duckham Construction Co., Ltd.

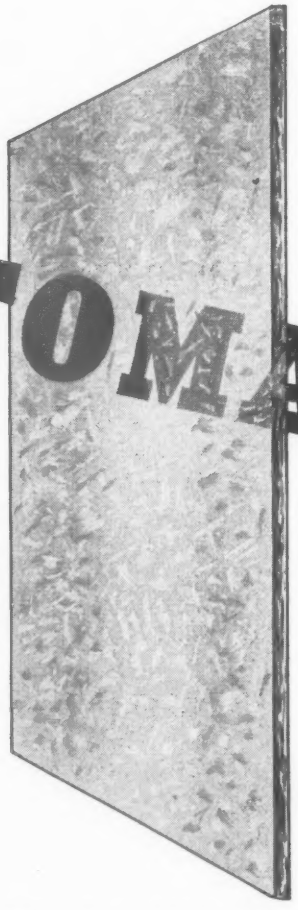




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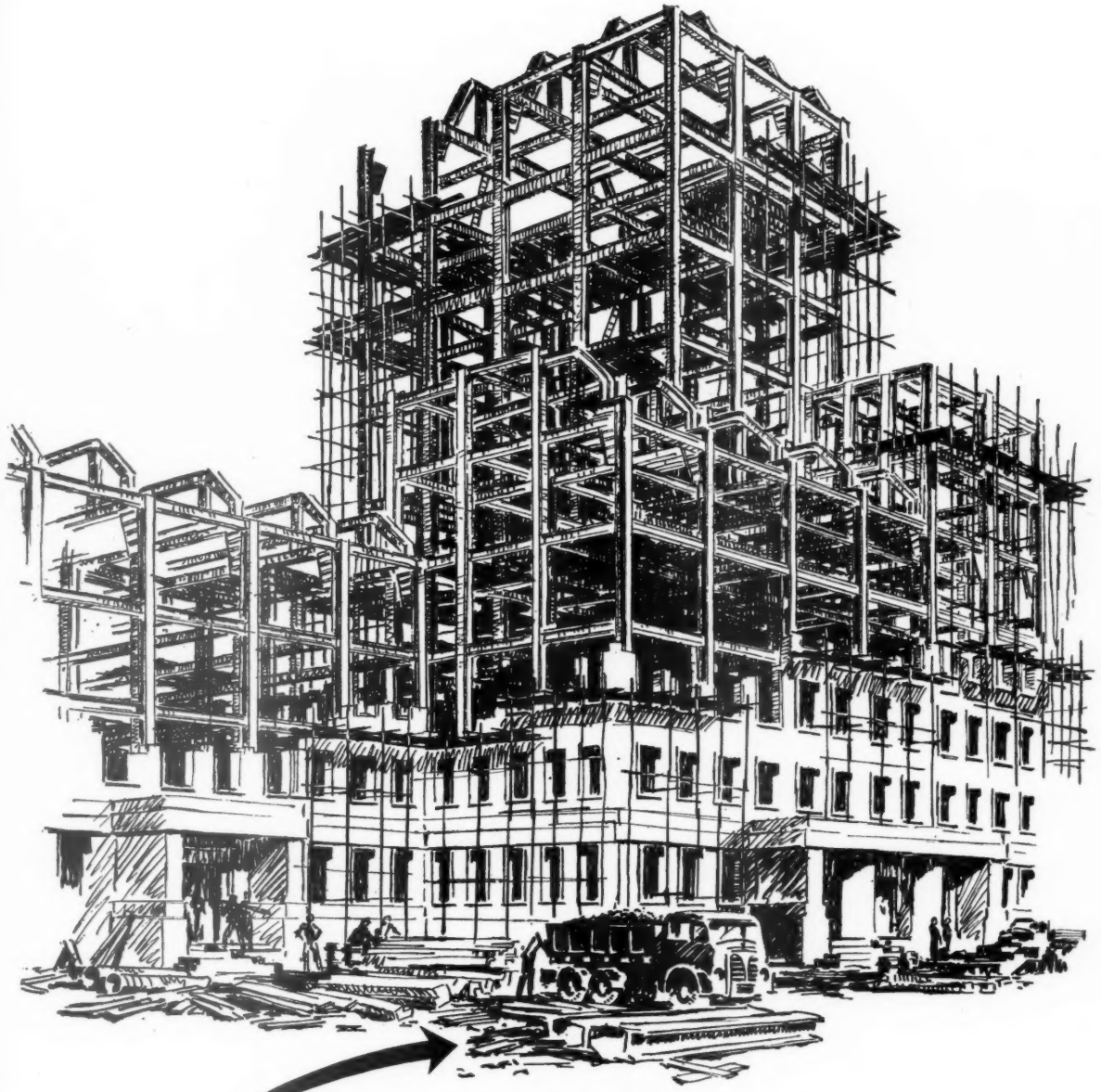
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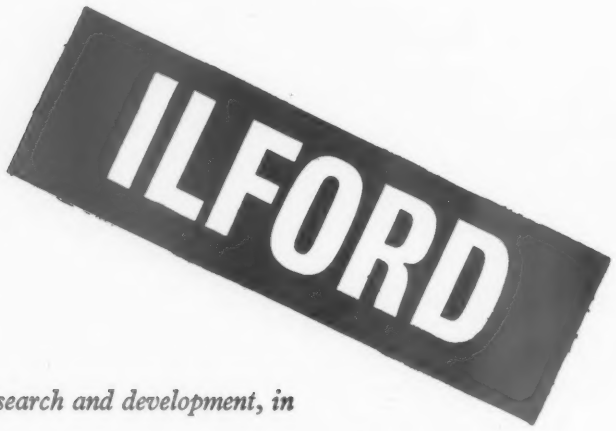


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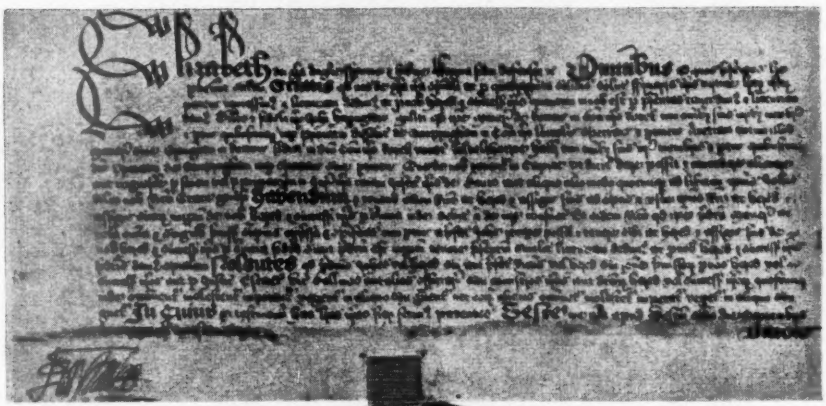
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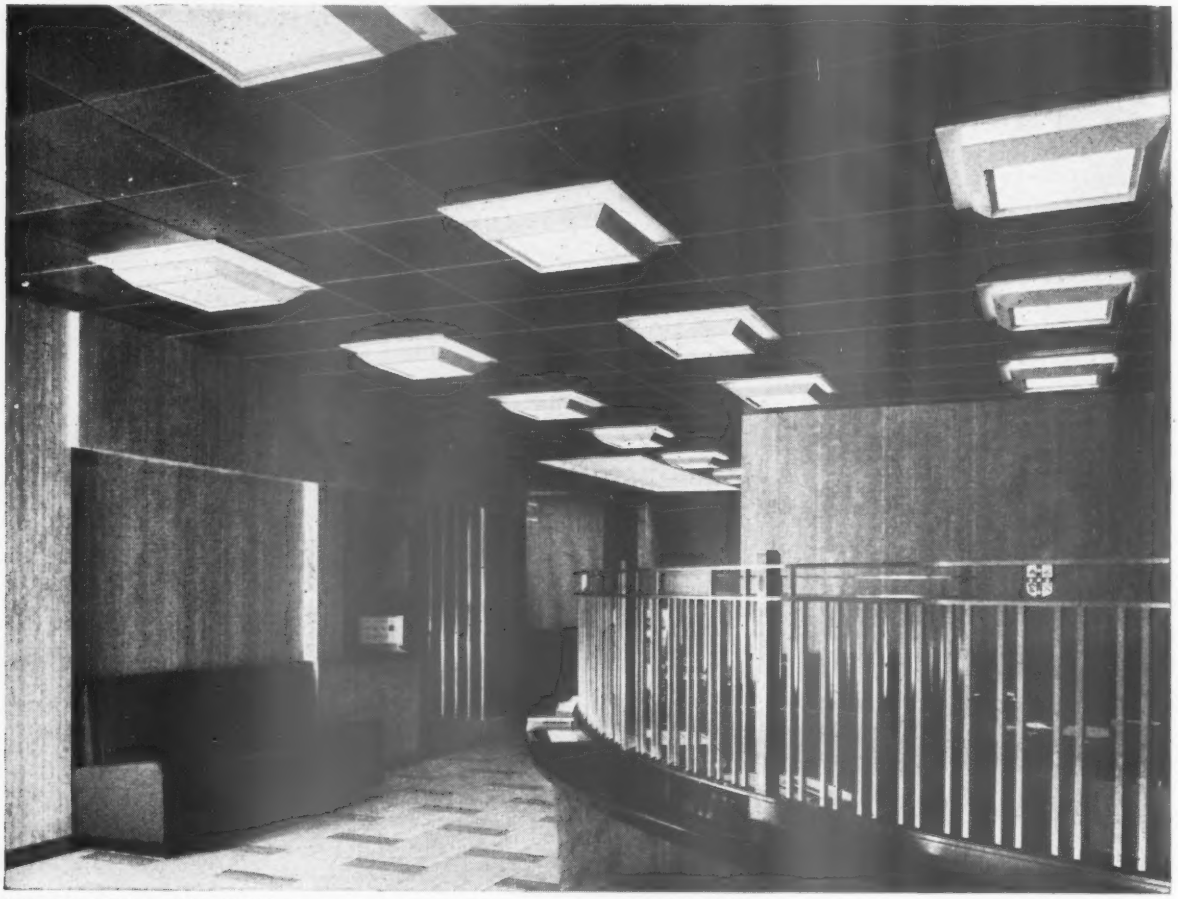


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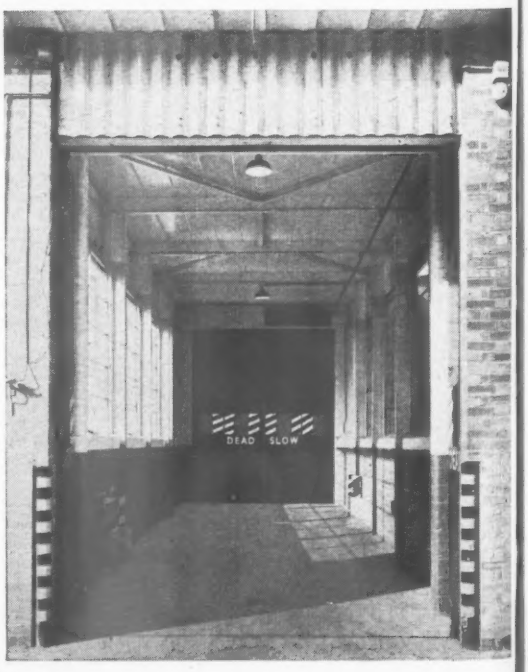
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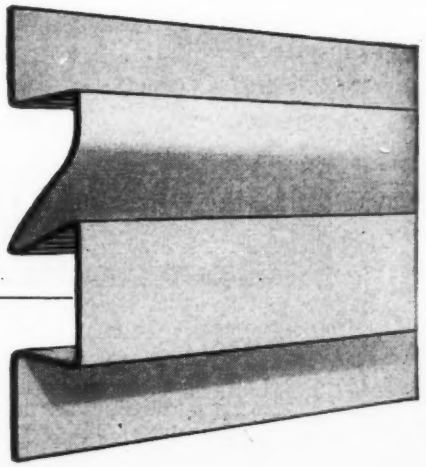
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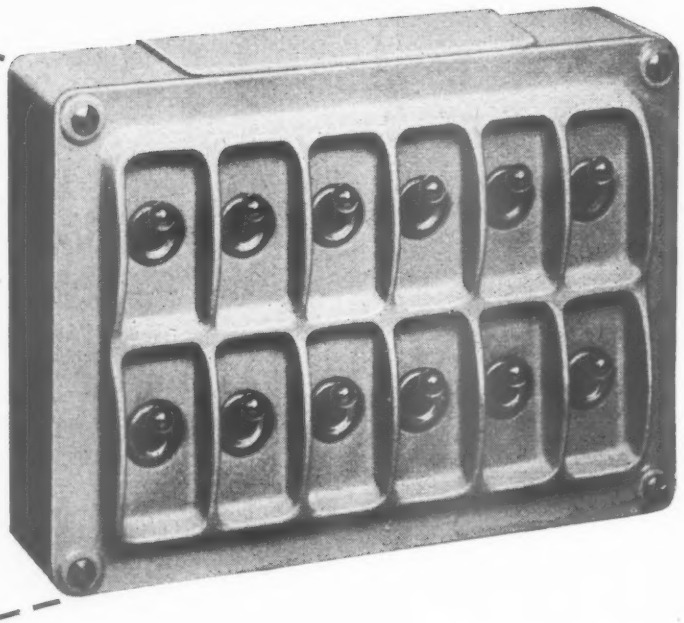
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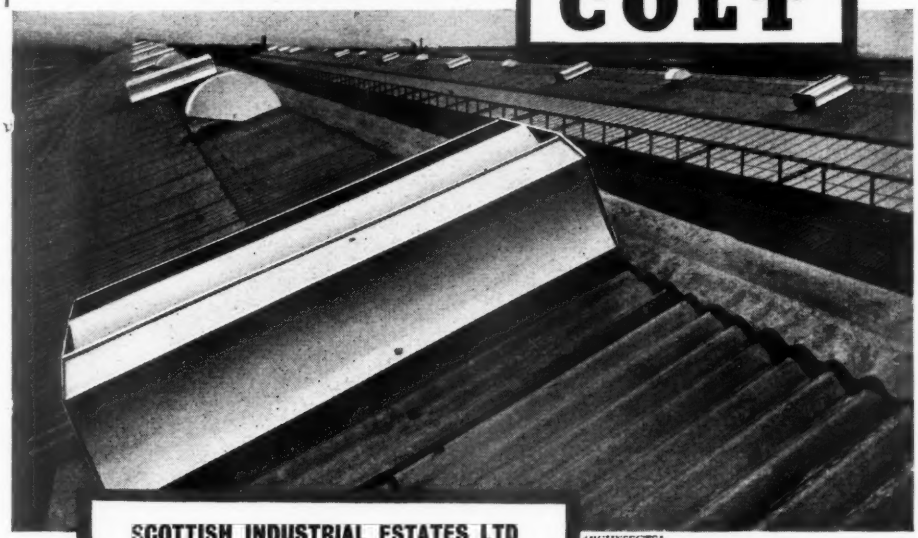
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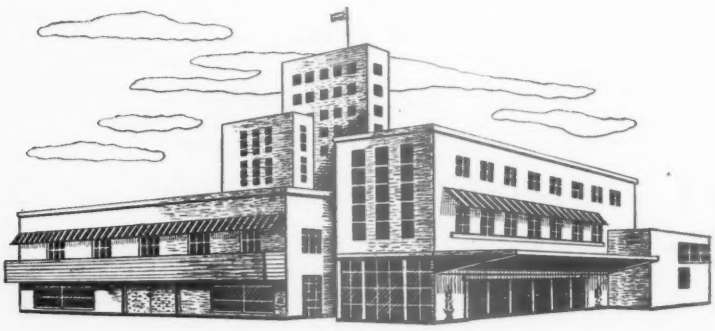
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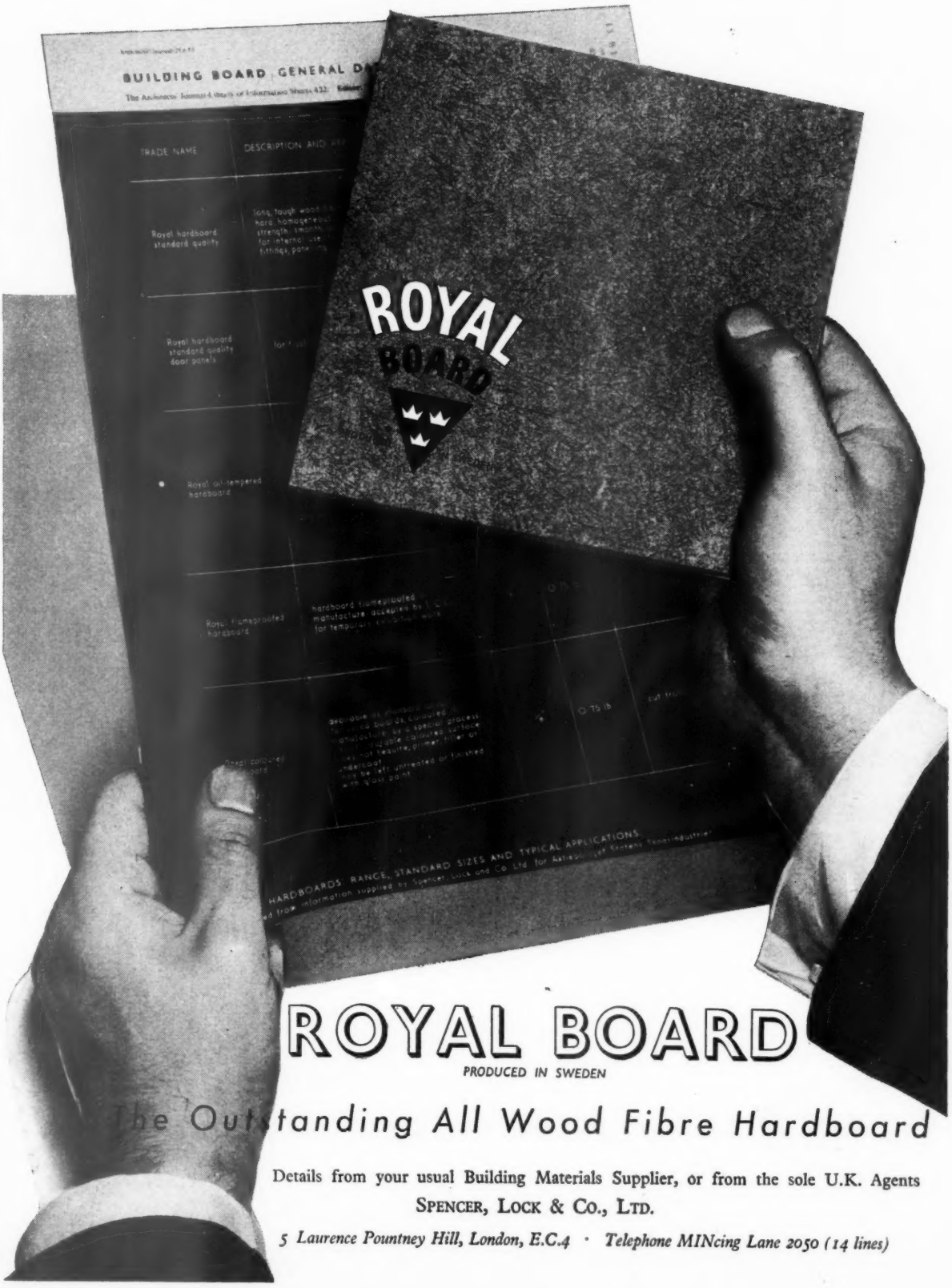
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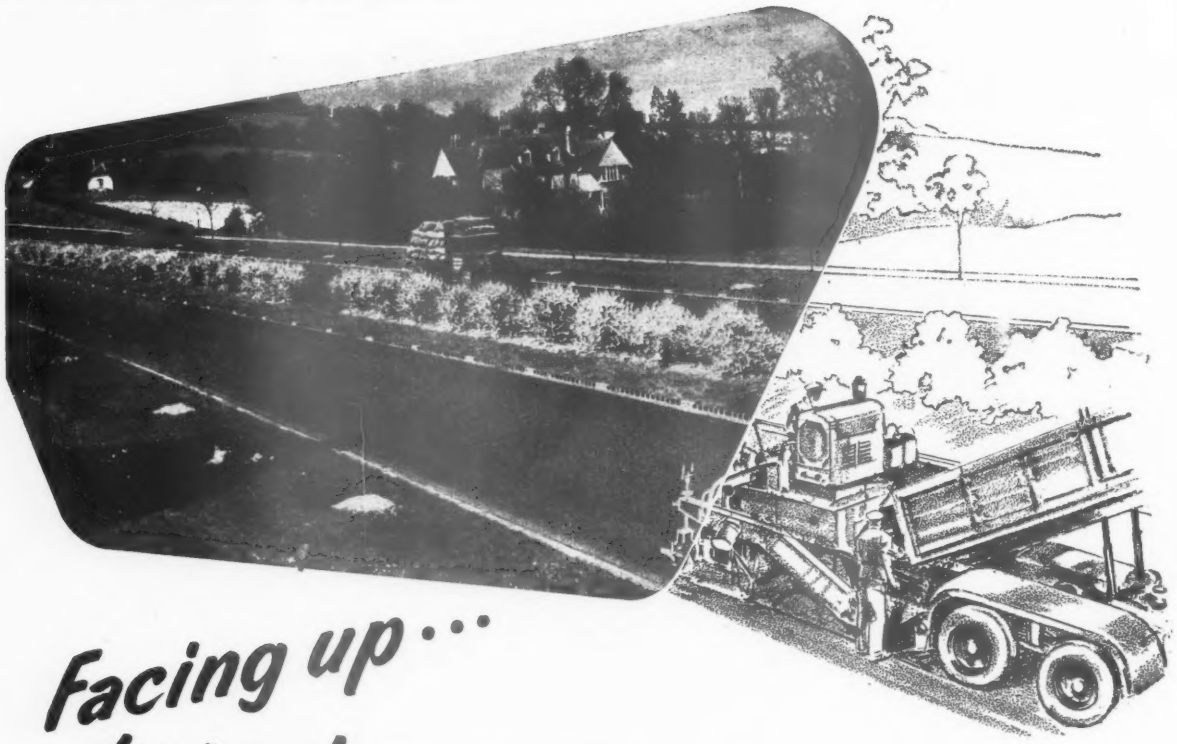
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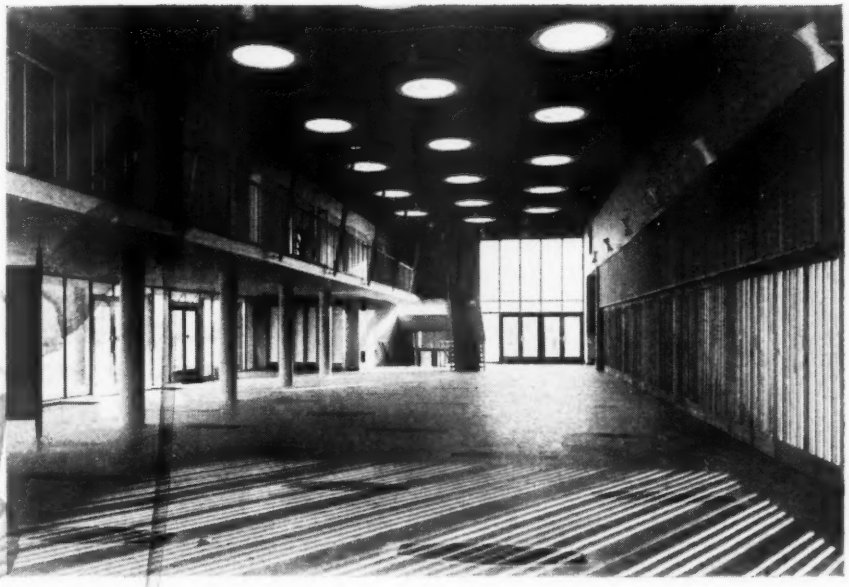


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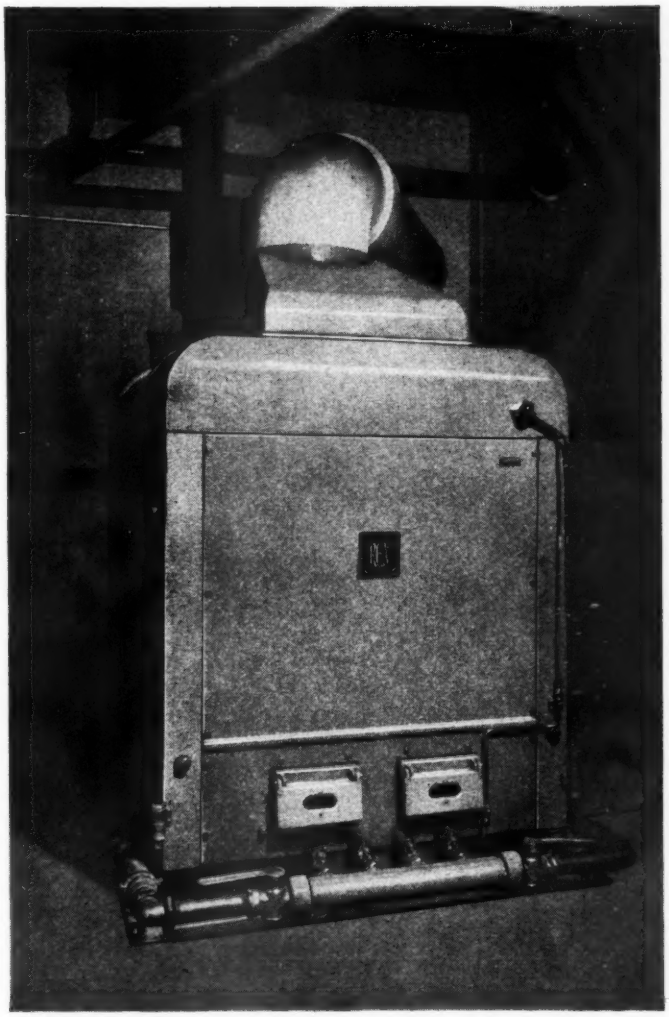
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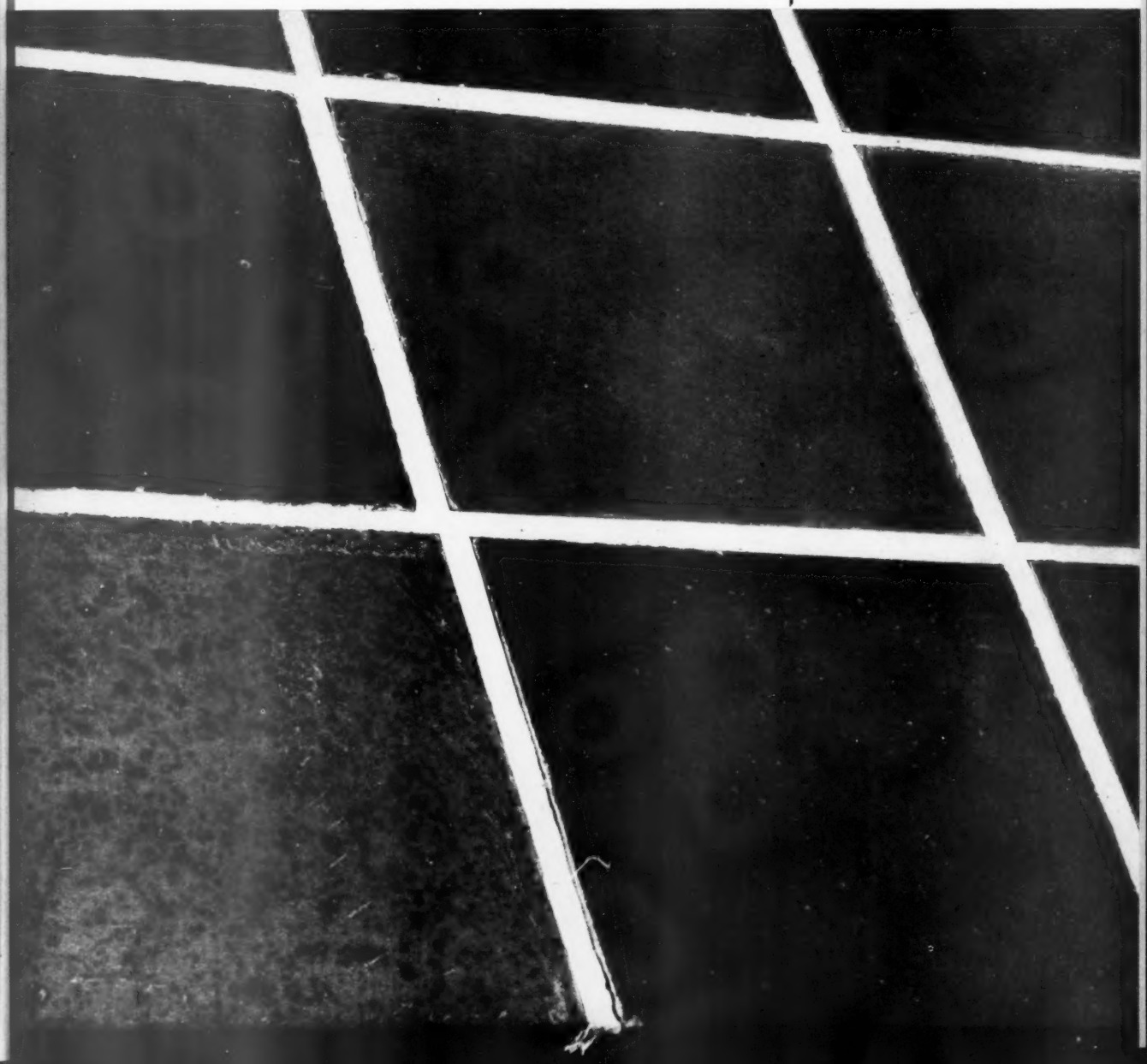
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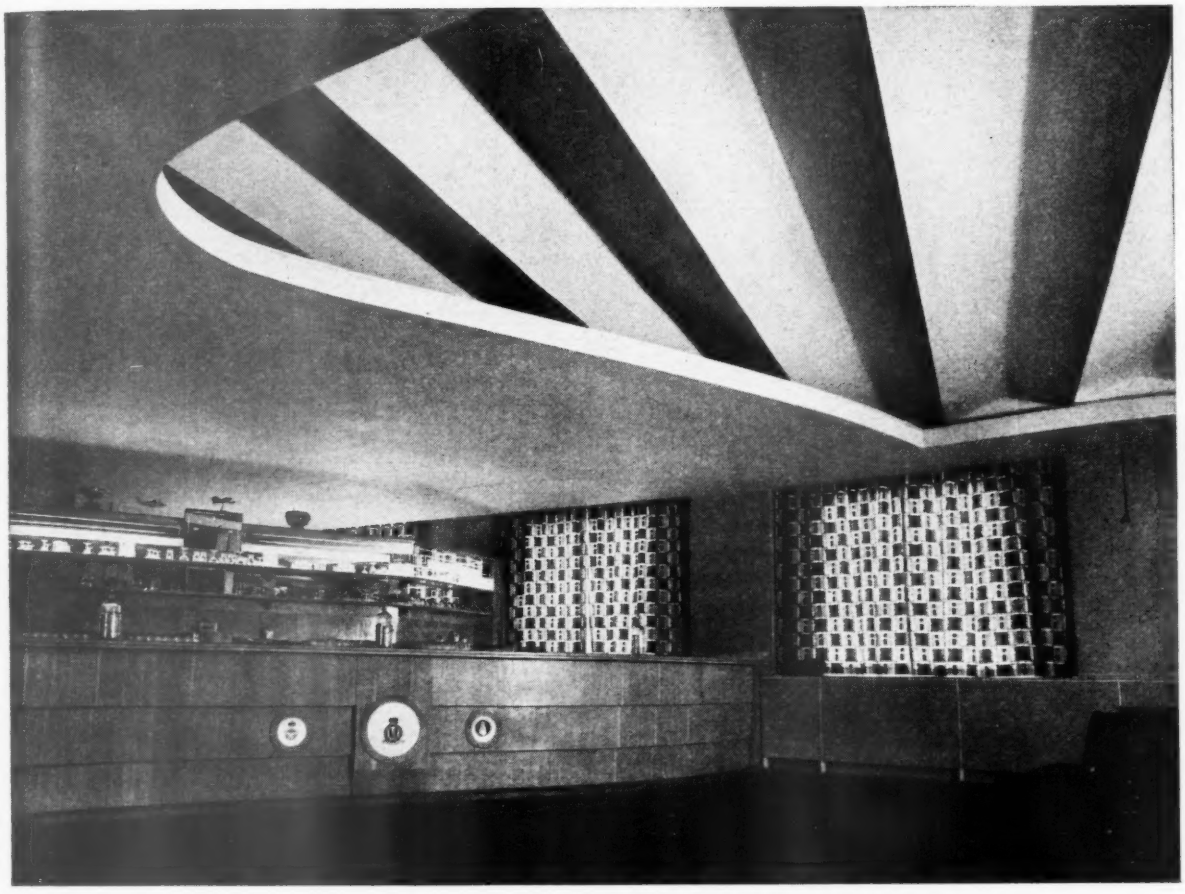
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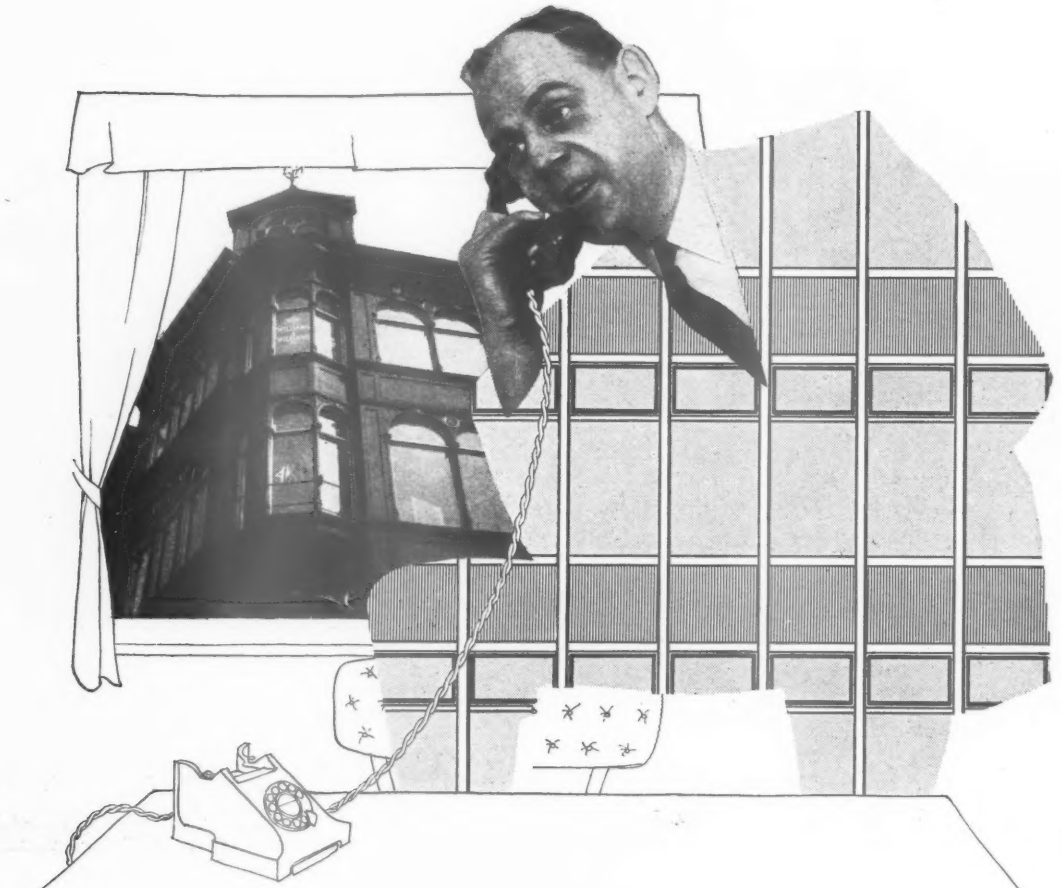
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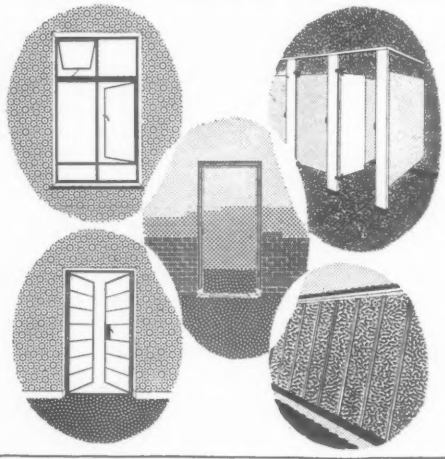
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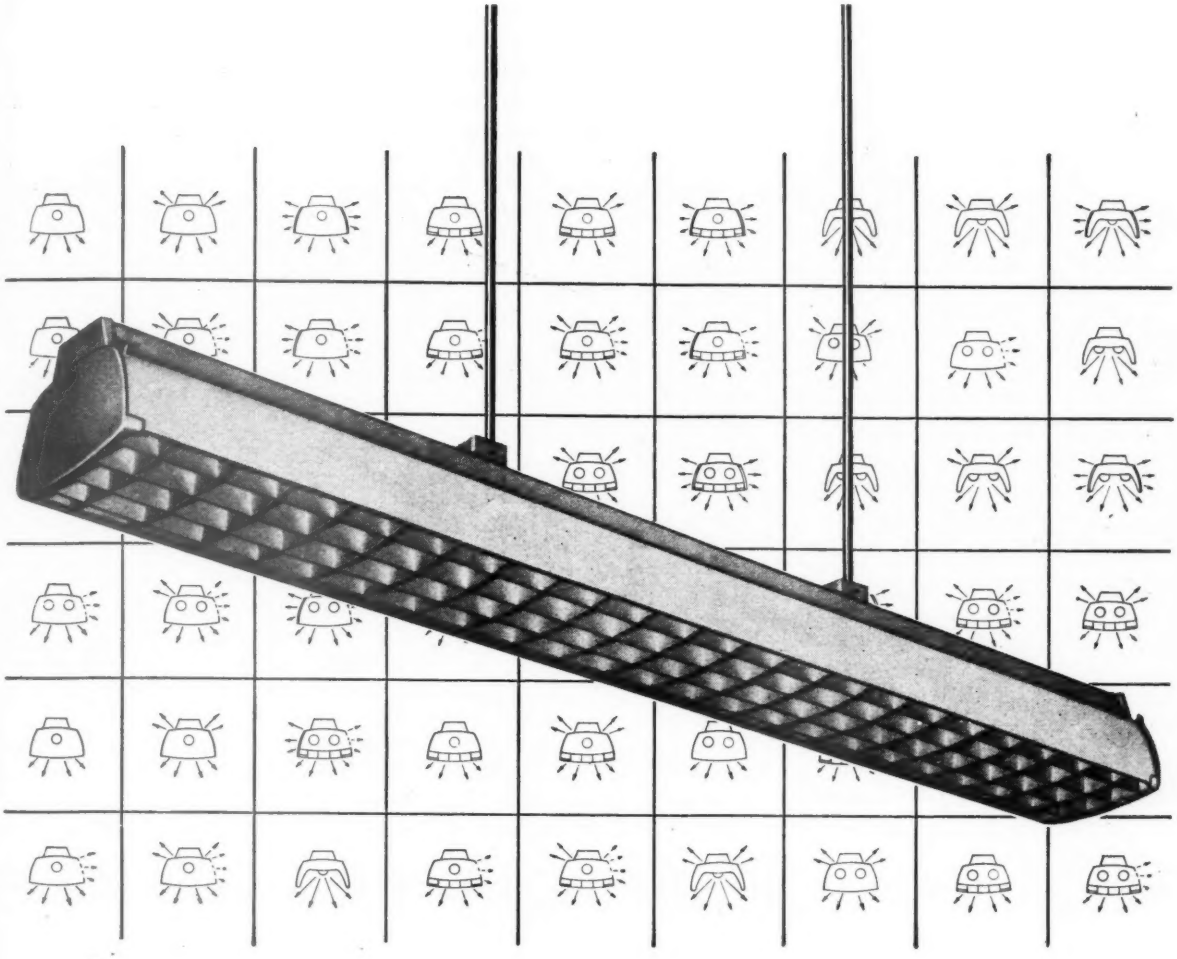
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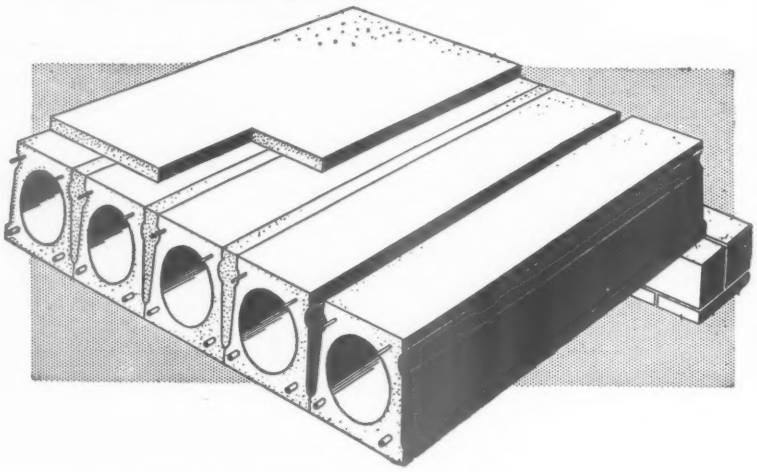
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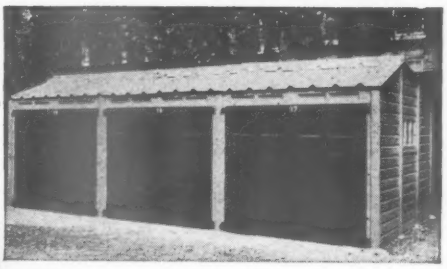
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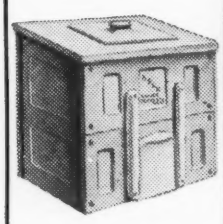
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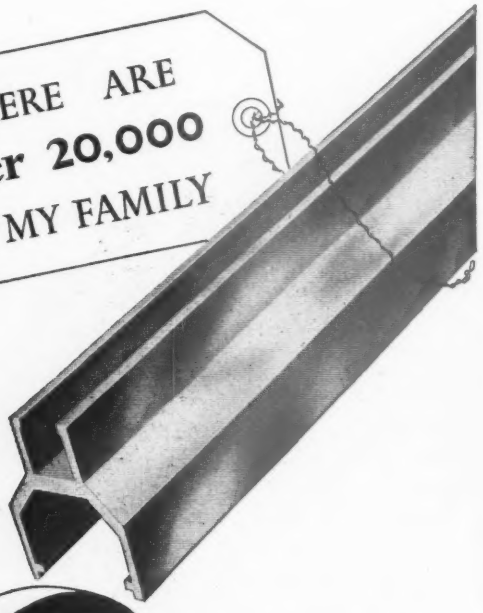
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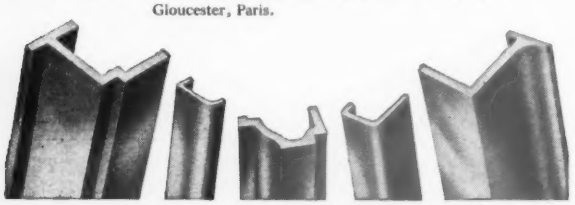
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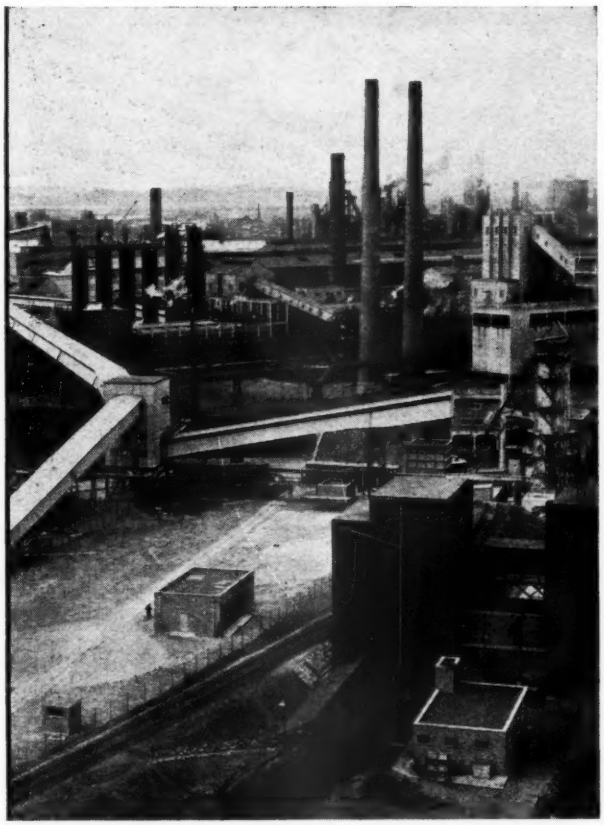
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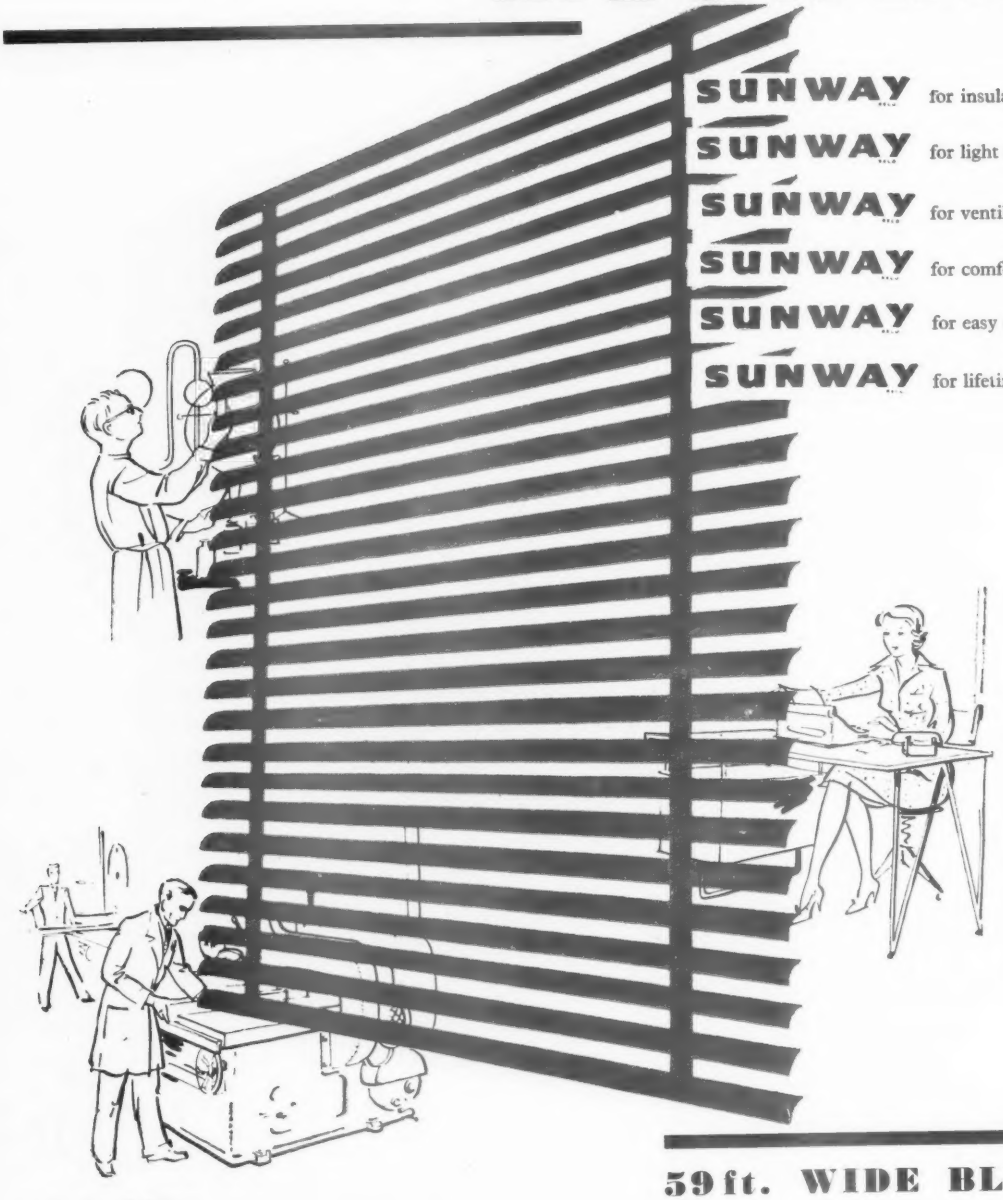
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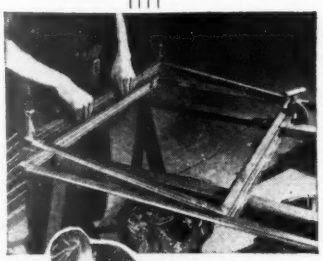


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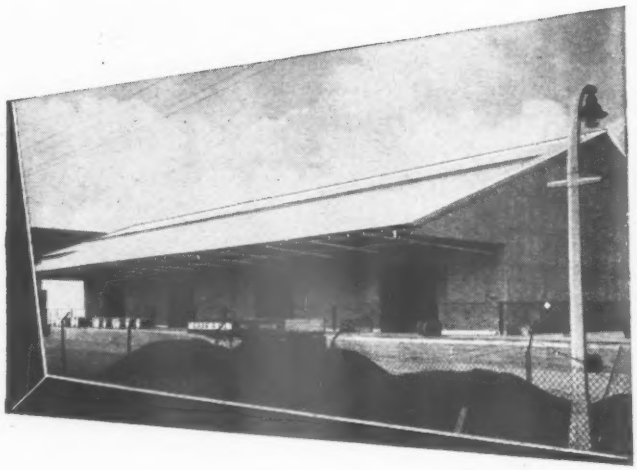
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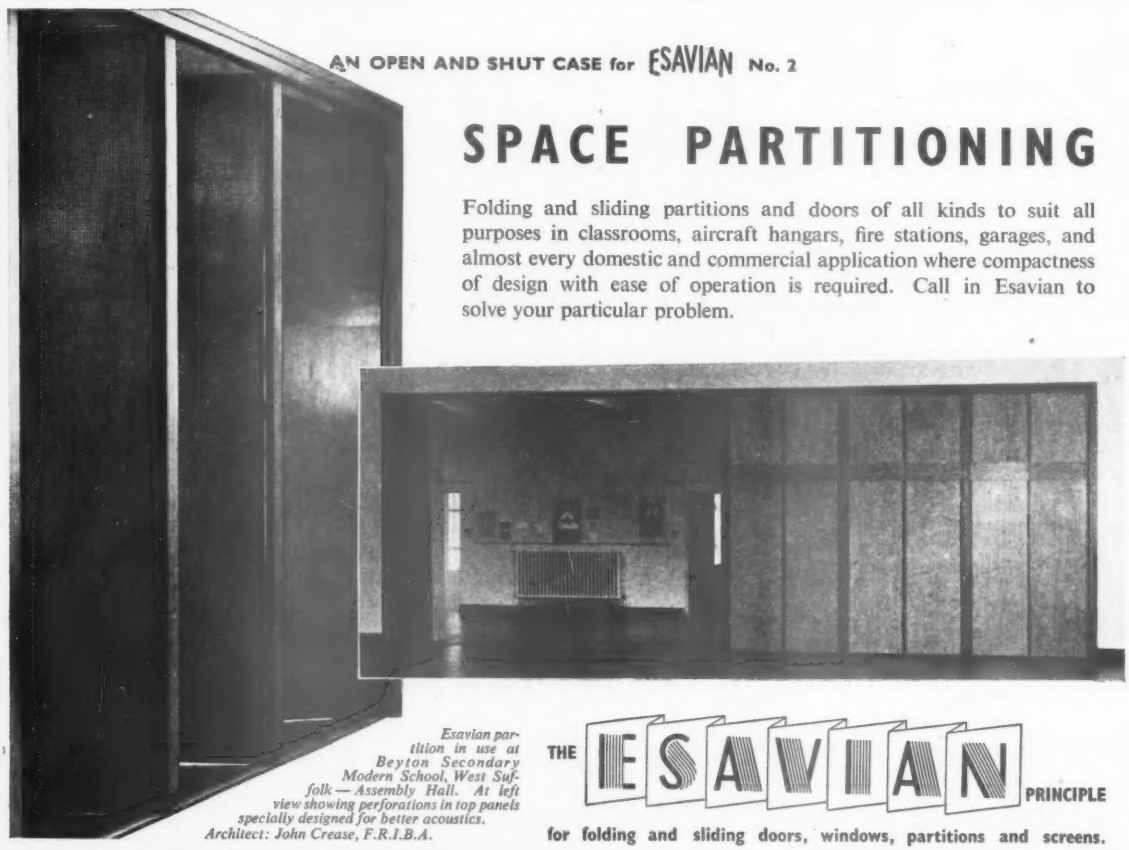
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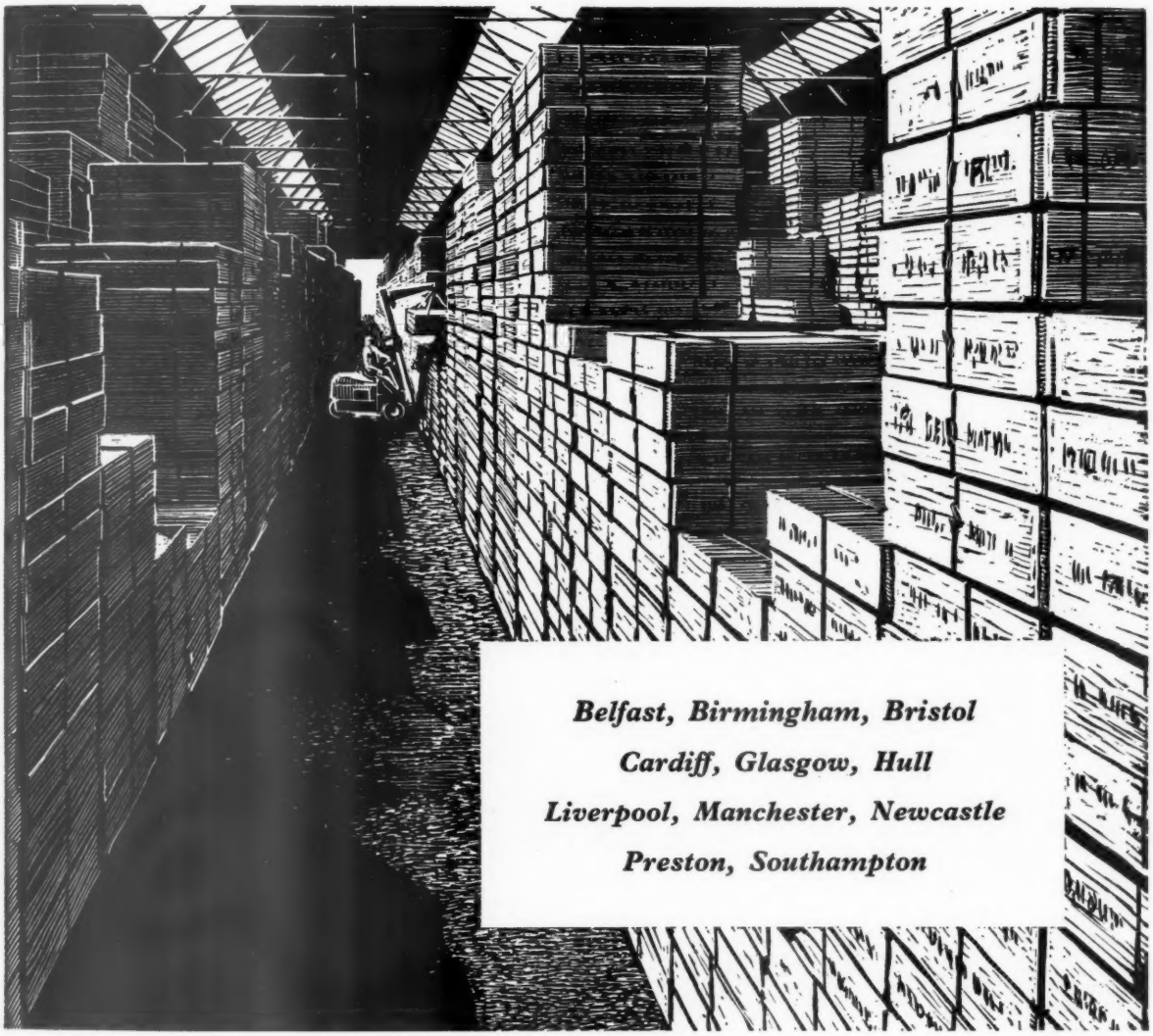
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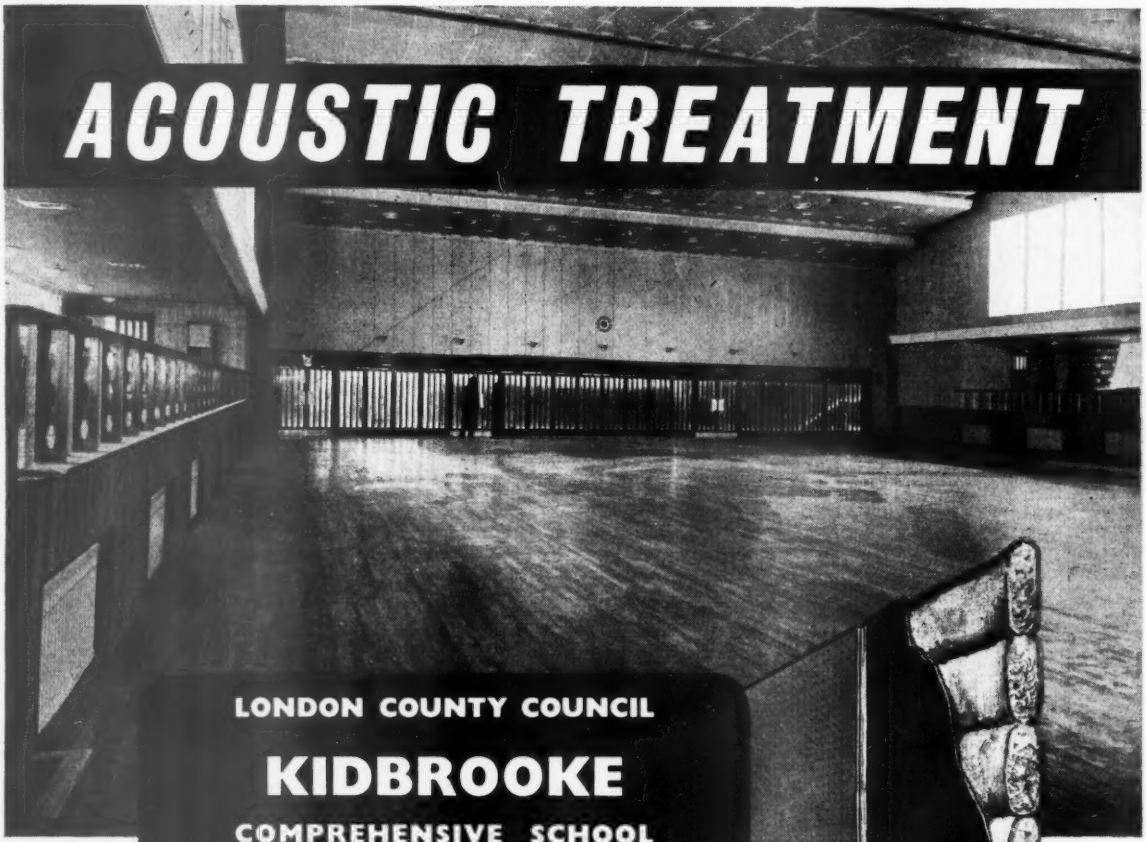
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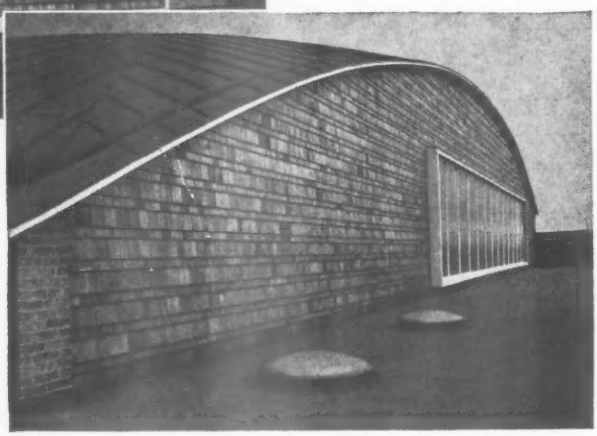


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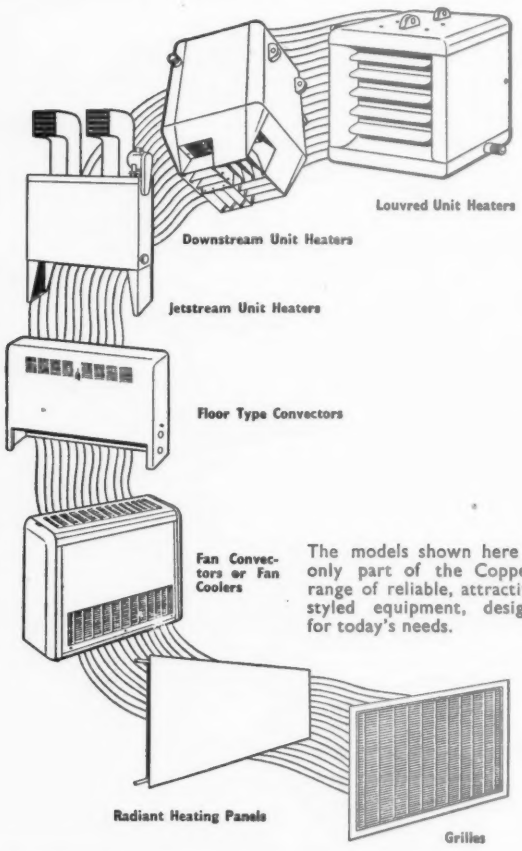
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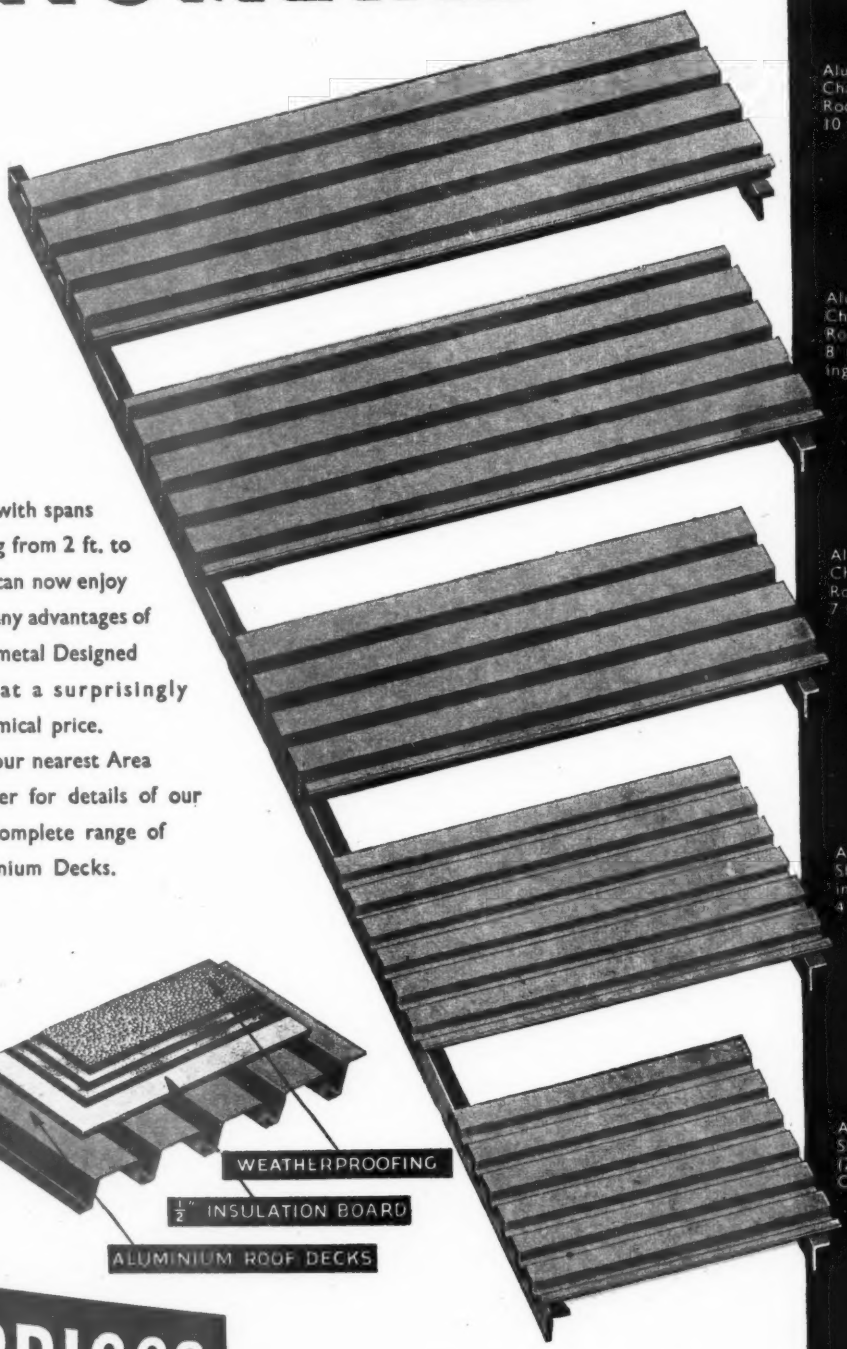
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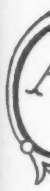
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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

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No. 3108 September 23, 1954 VOL. 120

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s.; post free, 1s. 3d. Special numbers are included in Subscriptions; single copies 2s. post free 2s. 3d. Back numbers more than 12 months old (when available), double price. Half yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage, 1s. extra.



HOW US INDUSTRY WORKS

The last of the US Productivity Reports* has now been published, the team's brief being "to investigate the dynamic and aggressive American approach to manufacturing methods and cost reduction." A pretty comprehensive task, but some of the conclusions are worth noting. The main factor seems to be the competitiveness of the US economy, which is brought about largely by the Anti-Trust laws, and the team suggests that we should toughen up our own monopolies legislation—a first step being to compel trade associations to publish their rules and agreements. This would certainly shake the building industry to the core, but such publications should make amusing reading. Equally important, probably more so is the American operative, who seems often to work on the principle that saving costs and increasing output will mean more money for *him*, whereas here, of course, it only adds to the already inflated profits of *them*.

*

Suggestion schemes are almost universal in America, and as they are a means whereby managements spot employees of ability, the number of suggestions is high. Moreover, some 26 per cent. of them are adopted. Cash awards average about $25, say £8, or about the same purchasing value as the £2 or £3 usual here. On the other hand, some firms make awards based on the savings produced by the idea, the maximum recorded being $28,000, which is really something, and far beyond anything ASTRAGAL has ever heard of in this country.

*

It would, on the whole, be a good thing for industrialists to read this report if only to see what it says about price-fixing. "Any agreement among competitors to fix prices is illegal regardless of the reasonableness of the price fixed."—and the same applies to limitations of output and the sharing of markets. What sort of upheaval should we see here, I wonder, if we had the same legislation?

NEW BARBICAN

The news that has so far been released about the project known as New Barbican for rebuilding the area of the City north of St. Paul's as a co-ordinated whole, must have cheered up everyone—and that means a great many people—who have been getting depressed at the failure of the City of London to plan boldly and comprehensively, and make the most of the opportunity offered by war-time destruction.

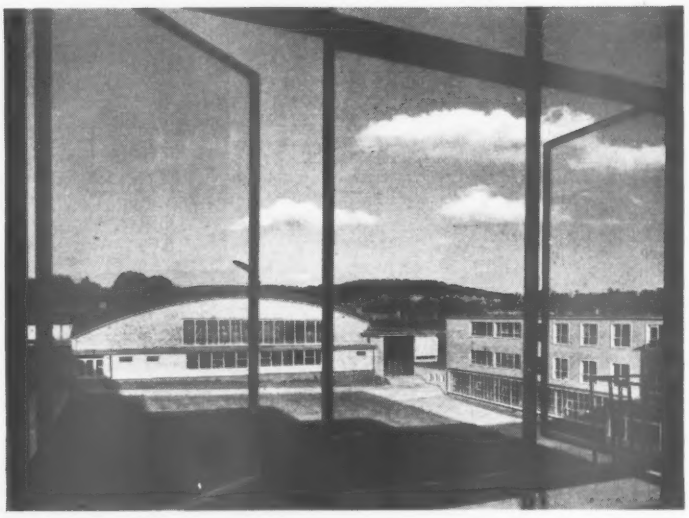
*

Further details of the project will be awaited with interest, and especially information about the extent to which mixed development, including industrial and residential, is proposed. London Transport is not the only body that will welcome the idea of people living in the City instead of having to be brought there daily in discomfort and expense. Sir Gerald Barry and his committee deserve all support, and their architects (leader: George Kadleigh) all encouragement. I hope the first people to encourage them will be the LCC who should not let any preconceived notions of how this area is best developed stand in the way of backing a scheme that has imagination and serious thought about planning principles behind it, as well as a lot of common sense.

*

My information convinces me that New Barbican is a great deal more than an architect's dream. On the question of height, for example, it proposes nothing more startling than several buildings that have already been sanctioned on the fringe of the City—such as that on the South Bank. The occasional lower blocks (consisting of flats superimposed on offices) will not be more than 20 storeys, but they will be planned in relation to each other in every sense—visual, social and functional—a thing that is shaming to have to write of as an innovation in London.

* *Industrial Engineering*. British Productivity Council. 5s.



HOPE'S WINDOWS

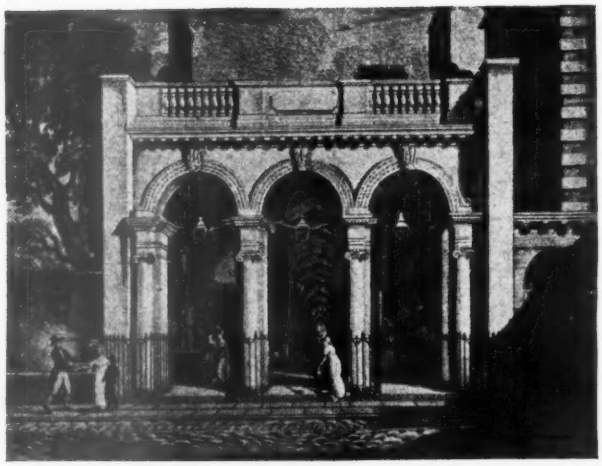
have been fitted throughout the first comprehensive school for L.C.C. at

KIDBROOKE ELTHAM

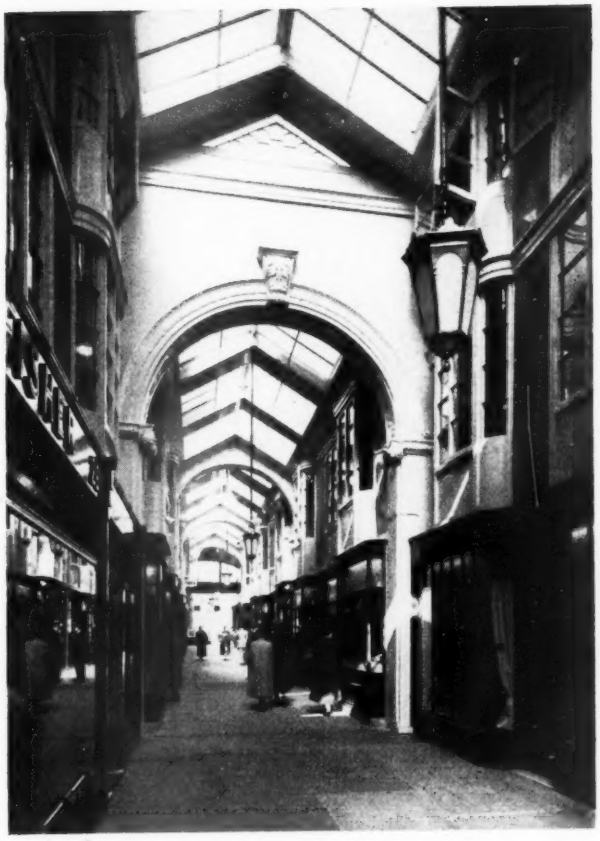
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The completion of the rebuilding of war-damaged Burlington Arcade was celebrated by a reception which ASTRAGAL *attended last week. Above, the entrance to Burlington Arcade from Burlington Gardens, as designed by Samuel Ware in 1818, and above right, as re-designed by William G. Sinning, of Bates and Sinning, in 1937. It has been repaired following war damage. Right, the rebuilt section of the arcade, seen from the original portion. The restoration has been carefully carried out, and it is only unfortunate that the Burlington Gardens entrance was not sufficiently damaged to warrant rebuilding either in the original, or in a contemporary manner. See* ASTRAGAL'S *comment.*

CAVENDO TUTUS

ASTRAGAL duly attended the opening of the newly rebuilt northern end of the Burlington Arcade to pay his respects to the place where the only really humane idea connected with shopping first saw the light in England. For the Burlington was the first shopping arcade in this country, the scheme having been promoted by Lord George Cavendish, designed by Samuel Ware and finished in 1818. Since then there has been a fire (1836), a redesigning of the Piccadilly entrance—by Beresford Pite in 1911, and again in 1931, a redesigning of the northern entrance by the present architect, William Sinning, in 1937—and the bombing of 1940.

*

In spite of all this it has managed to retain a convincingly Regency air down to the present day—its scale, as well as its by-laws and the kind of shops it contains, requires one to stroll—and the reconstructed bays follow Regency precedents set by the lower part of the arcade. But they follow, to ASTRAGAL'S eye, a little too faithfully. At first sight only the pointing of the brickwork will tell where the old work finishes and the new begins, but after further inspection one sees that the new part is too stylistically regular—all Regency, with standardized detailing—whereas the older part contains modernistic, and even contemporary, work.

*

Let us hope that mere antiquarian uniformity will not be imposed on the new part, and that shopkeepers will, within the very tight limits imposed by the dimensions and structure of the arcade, be permitted to exercise the slight liberties which lend variety and life to the scene.

ST. JAMES'S PICCADILLY

ASTRAGAL, writing recently about St. James's, Piccadilly, expressed doubt about the propriety of placing a Richardson steeple on a Wren church. He has been warned, from the erudite depths of the Sir John Soane Museum, that the original steeple was not Wren's anyway, but only that of a carpenter named Wilcox, and there could be nothing much wrong in replacing Wilcox by Richardson. True, although it would still be a Richardson steeple on a Wren church. The facts are, however—as is so often the case—complicated.

*

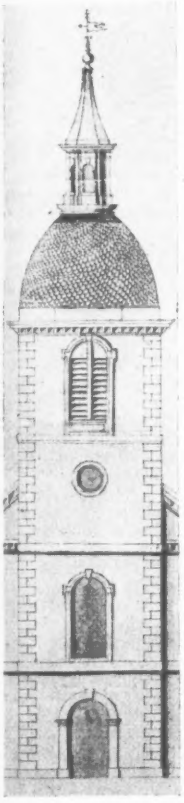
In 1685 Wilcox, a master carpenter who had worked on several Wren jobs, including St. James's rectory, was ordered by the Church Wardens "to attend Sir Christopher Wren to receive his directions in the goeing on and finishing the steeple" and a few months later



Unesco Headquarters Approved

The Paris Municipality has approved the latest design by architects Marcel Breuer and Bernard Zehrfuss, and engineer Pier Luigi Nervi, for the new Unesco headquarters in Paris. This, it is to be hoped, puts an end to the fierce controversy concerning the design and siting of this building which began over two years ago. At any event, the site in the Place de Fontenoy has been cleared of the existing old barracks, the working drawings have been completed, and tenders invited. The design has been only slightly altered, as can be seen from the plan on page 368, since it was published in the JOURNAL of May, 28, 1953. when it had been approved by the international panel of architects advising Unesco (Lucio Costa, Walter Gropius, Le Corbusier, Sven Markelius and Ernesto Rogers). The first design for an Unesco headquarters by Breuer, Zehrfuss and Nervi consisted of a 16-storey slab block of offices, with low-level conference hall and library-restaurant-administration block, for a site on the west side of Paris, bordering the Bois de Boulogne and between the Porte Dauphine and the Porte Maillot. This design was rejected by the Paris planning authorities for this particular site, and in the end the French Government withdrew their offer of a site at the Porte Dauphine and offered the present site in the Place de Fontenoy, behind the Ecole Militaire, subject to consent being given by the Paris Municipality to the final design. The model shows the Y-shaped, 8-storey secretariat, the uppermost of the curved façades of which roughly completes the curve of the Place de Fontenoy and, bottom, the conference building with roof and end walls in continuous corrugated reinforced concrete.

Below left, a design for a steeple for St. James's, Piccadilly attributed to Sir Christopher Wren in the Wren Society Volumes and described by a correspondent as " a stinker and if I had to guess whose hand it was I should say Robert Hooke." Below right, the pre-war spire, by master-carpenter Wilcox, from John Clayton's drawing.





Wren produced " a draft " of a domical covering surmounted by a lantern. This was never built; a design by Wilcox replaced it, Wren being consulted only about the weathercock. This later steeple, however, developed severe cracks, was removed by Wilcox and rebuilt by him in his own yard where he put a shed over it. Again, all to no purpose. In the end, in 1699, the insignificant spire, above, that we all remember, was designed and erected by Wilcox. Does Wren's design exist? There is " a draft " in *Wren Soc.* IX. pl. 16. If this is from the hand of the master (and the erudite guess that it is by Robert Hooke) then it is far from being his masterpiece. Wilcox—alleged Wren—Richardson . . . St. James's, it would seem, is firmly wedged upon the horns of a triple dilemma.

ASTRAGAL

POINTS FROM THIS ISSUE

Leonard C. Howitt on private work by public architects .. page 367

Town planning and house construction **competitions announced** page 370

Fitting out **a shop in 65 hours** page 383

The Editors

THE INDUSTRIAL ENGINEER

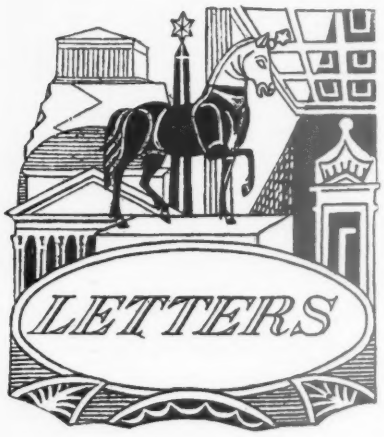
THE new report of the Anglo-American Council on Productivity entitled " Industrial Engineering " (see last week's News note), though it is less central to the architect's purpose than the celebrated report on Building (May, 1950), concerns him all the same. For remembering always that building itself is in process of conversion from a craft to an industrial basis and that American industrial thinking is setting the pattern of industry everywhere, it is clear that the world with which the architect has to grapple is going to be a world organized ever more closely on the pattern set out in this report.

Perhaps the chief objective of the report is to state the terms of reference of a new profession, that of the industrial engineer. In this country we have only just got used to the production engineer (readers will remember the production engineering exhibition this July) and to be introduced to yet another variety of " hyphenated engineer " so soon will come as rather a shock. In point of fact it is not an easy matter to discern the exact boundaries of these two professions since so many of their functions overlap: but in broad terms we may say that the Production Engineer is concerned with the problems of production only (in other words he is a kind of consulting works manager) while the " Industrial Engineer " has broader terms of reference, terms which include production, but include also decisions on what is to be produced. Industrial Engineering is defined in the report as " the application of basic scientific and engineering knowledge and certain analytical techniques to the methods of operating an organization in industry . . . " It is not accidental therefore that the report goes on to describe the Industrial Engineer as " the architect of productivity " and to amplify this description by pointing out that like the architect properly so-called he is concerned with so many technologies that he cannot expect to know them all.

Historians of culture will be quick to notice this corroborative evidence of the need in our time of what we might describe as " co-ordinating talent ": of a kind of man who can bring together the strands of divergent specialization. It is the realization of this which urges the JOURNAL's Editors to bring into the foreground this aspect of the architect as the co-ordinator of other people's skills at the expense (perhaps) of the complementary aspect of the architect as the creator of form: to give more space to such matters as site organization, cost control

and the work of specialist sub-contractors than to those other cases where the architect figures as a solo virtuoso. This is not to deny that he is, as always, a creator of form but only to point out that it is idle to talk about form until the contributory skills have been brought to terms with one another.

The relatively small number of architects who have so far aspired to fill this role in any adequate manner will be the first to agree that there is room for more people who will attempt the same kind of thing in neighbouring spheres and they will therefore welcome the industrial engineer as a colleague who has it in his power to prove exceedingly useful.



Derek A. de G. Abbott, Student R.I.B.A.

Robert Cromie, F.R.I.B.A.

Anon

R. A. F. Riding, A.R.I.B.A.

H. Neville Player, A.R.I.B.A.

J. M. Milner. A.R.I.B.A.

The New Brutalism

SIR,—Congratulations to the JOURNAL for its honest and outspoken criticism of Hunstanton!

Today, an increasing number of architects and students are pitching themselves into the blind, cold, dark (usually black), inhuman alley of formalism.

This tendency to ignore the functional and human aspects of architecture is nothing less than a return to the dismal decadence of the *Beaux-Arts* system of training architects.

At architectural schools just now, one sees town planning schemes of a highly formal nature, based on the assumption that all existing development is to be destroyed. What has this utter cynicism got to do with architecture?

If these formalists can only regain their natural vision through the inspiration of masters such as Alvar Aalto, Richard Neutra, and Marcel Breuer, and from them and others learn the real "secrets" of building, space, and environment, then perhaps there is hope for a genuinely progressive architecture.

DEREK A. DE G. ABBOTT.

London.

Wrencote

SIR,—Yes, I think you are right; best to leave the subject (The preservation of Wrencote, a Georgian house in Croydon, commented on by ASTRAGAL in the JOURNAL of September 9) until your brilliant critic has something to criticise. Or maybe I am wrong—the adjoining buildings should perhaps be in the so-called contemporary "style"—divided into squares of glass and stucco?

Also, it may interest readers to know that it is through my clients' own generosity and my own efforts that this old building *is* to be preserved. I think you should have been better informed before publishing such remarks as "attempts to destroy or deface 'Wrencote.'" The only people who would have allowed this to happen are the "highbrows" who talk a lot, but do not put forward a single penny in support of their convictions.

ROBERT CROMIE.

London.

Alarming Builders

SIR,—In the JOURNAL of August 26, ASTRAGAL wondered whether small builders are alarmed by full sets of drawings and details upon which to tender for houses. He might be interested to hear of a recent experience I had in designing a house for myself.

The scheme on which the first set of prices was obtained was a contemporary design with butterfly roof using unrendered, lightweight concrete blocks and with partitions and ceilings of sheet material. It completely eliminated plastering, was most carefully detailed to avoid cutting to either blocks or panels. Full ¼ in. scale drawings were prepared and six large details covered the job to make sure that everything was completely understood. The tenders received were approximately £3,300 for a house with a large living room, dining recess, kitchen, bathroom, two bedrooms and car-port for one car.

The firms who had quoted were interviewed and said that they had not been influenced in their price by the unconventional treatment but that a house of these non-traditional materials was more expensive than the straight-forward brick and plaster which was generally in use.

The plans were completely revised with 11 in. cavity walls with coloured cement rendering, pantile roof, brick partitions, interior plastering and tiled bathroom. The area of the house was slightly decreased but central heating throughout was added and a prefabricated concrete garage for two cars was also included. The result was a drop in the price of approximately £1,000. In the second case the house was illustrated only by a carefully noted ¼ in. scale drawing of half-imperial size and the specification as before.

I am positive that the use of non-traditional materials and the production of full sets of drawings does have a very material effect upon the tenders received. It certainly also has an effect upon the cost in the architect's office, a matter which is itself of great importance owing to virtual impossibility of making highly detailed houses pay their way.

ANON.

Check Lists

SIR,—Amongst the many Information Sheets published for the assistance of those in architect's offices, I have never seen one setting forth the obligations of the architect, and the duties to be fulfilled in the design and carrying out of a normal building project in London. The programme and timing are, of course, known to the responsible person or persons in an office of standing, but the growing and existing complexity of these requirements, prompt me to write and suggest that you might issue an information sheet which could be hung up in the office, and serve as a reminder of what work still had to be done on any particular job in hand and what (if any) detail had been neglected.

Such a schedule would describe the requirements of each step, and might commence something like the following:—

(1) Preliminary Survey (sufficient to draw up a sketch scheme for the clients' consideration).

(2) Sketch scheme for client. Having obtained aproval to go ahead we come to

(3) Develop scheme sufficiently to send to planning authority. (Do this early as it sometimes takes time). State here purpose of this submission, drawings required, any other details.

(4) Confirm the survey and begin preparation of the ¼ in. scale drawings.

(5) Prepare a plan for certification of the street boundaries of the site by the District Surveyor (state scale(s)), requirements and purpose of this drawing.

(6) Prepare plans of the Party walls for the adjoining owners to agree to same. State requirements of these plans; any other legal points, and dimensions required. Also requirements of the byelaws, reason for these agreements.

(7) The time is now at hand to approach the structural engineers; and other collaborators such as lift engineers with a view to completing the drawings for—

(8) Submission to the local authority in compliance with their byelaws; in this connection and at this stage the Town Planning Authority are interested in the appearance of any means of escape (alternative)—details of drawings required.

(9) Detailed drainage arrangements for the Local Sanitary Authority.

(10) etc., preparing contract documents.

(11) etc., letting contract, etc.

The above are merely suggestions, and there may be a better order for these processes. I feel sure however, that a schedule such as your resources and experience would enable you to draw up would be of the greatest use.

R. A. F. RIDING.

[We have in the past thought about such a "check list" but have been discouraged by the reflection that for the list to be valuable it must be detailed, and that since every kind of job requires so many detailed actions peculiar to itself the list would therefore have to be longer than a sheet allows. As it is, readers would have to be supplied with duplicate copies if they are to pin up both the face and the reverse in the office. But these objections may not be insuperable, and we will gladly reconsider what is a most helpful suggestion. —EDS.]

Mental Hospitals

SIR,—It may be helpful to your recent correspondents seeking information on the design of mental hospitals to refer to the

"Architectural Record" for November, 1953, which contains a study and bibliography on the subject. The information is given that the American Psychiatric Association has received grants from two foundations to finance a two-year study of mental hospital architecture and design. The project is to be carried out in co-operation with the American Institute of Architects.

H. NEVILLE PLAYER.

Widnes, Lancs.

SIR,—To my knowledge, Miss Stainer is quite correct when she indicates in her letter, published in your issue of August 5, that the design of mental hospitals is not given the study it deserves.

My thesis was a design for a colony of mental defectives and was accompanied by a report.

The scheme was a study of the problem of designing a good architectural environment for the needs of mentally defective patients, and staff, and was awarded a "pass with distinction" at the Leeds School of Architecture in 1949. Since that time the drawings and one copy of the report have been in my possession and have only been used to support my applications for jobs. The other copy of the report has been in the library of the school.

If my work is likely to help any person or organization in the design of colonies, I shall be pleased to hear from them.

J. M. MILNER.

Cheshire

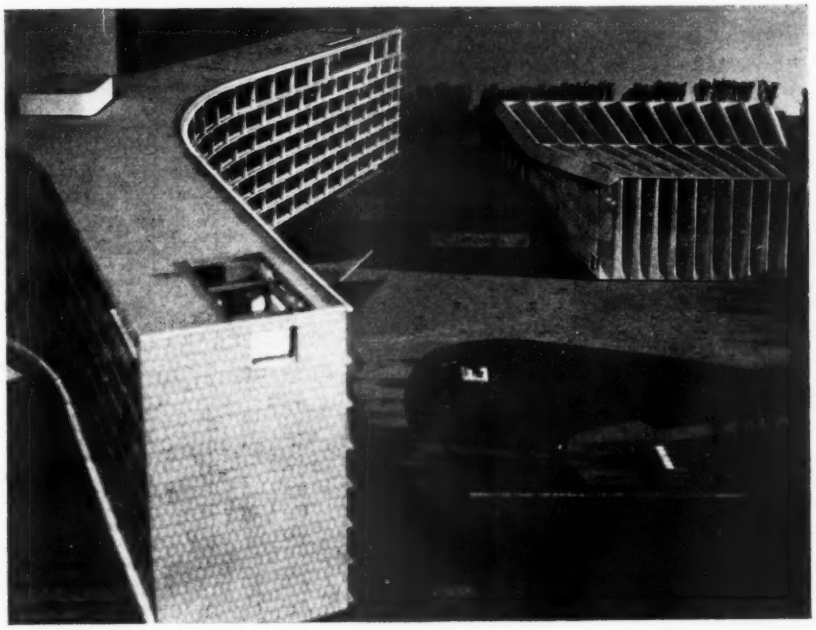
Do private architects complain only about local authority assistant architects doing private work in their spare time and turn a blind eye to their own assistants undertaking private work? This is but one of several points raised below by Leonard C. Howitt, city architect, Manchester, and chairman of the Salaried and Official Architects Committee of the RIBA, whose opinion we asked on the JOURNAL's *leading article of September 2 which described the objections to private work being undertaken by public architects and assistants generally.*

LEONARD C. HOWITT

Private Work Ban for Public Architects

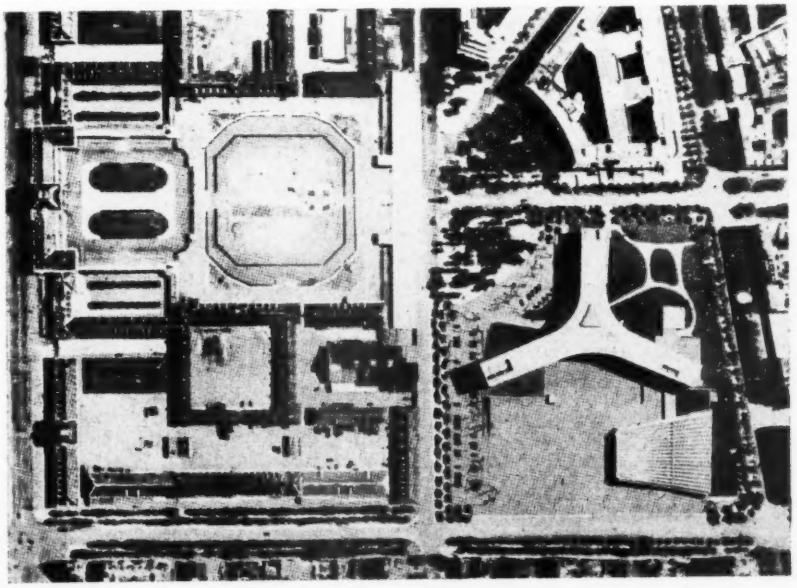
The question posed in your leading article of September 2 is by no means new. Reference to the RIBA JOURNAL of February, 1948 (page 177) shows that it was the subject of a resolution of the RIBA Council in 1932, but the "principles" governing the question of whole-time officials engaging in private work

BUILDINGS IN THE NEWS



Unesco Headquarters, Paris

Planning permission having been given by the Paris Municipality, construction is about to begin on the Unesco Headquarters, Paris, designed by Marcel Breuer of America, Bernard Zehrfuss of France and Pier Luigi Nervi of Italy. The relationship of the design, shown from the west, above, to its site in the Place de Fontenoy, can be seen below. The Place de Fontenoy is on the axis of the Ecole Militaire, left, with beyond the Champ-de-Mars and the Eiffel Tower. The design of the Y-shaped, eight-storey office block has been slightly altered, as can be seen by comparing the symmetrical design shown in the aerial view below (first published in the JOURNAL *for May 28, 1953) with the ground*

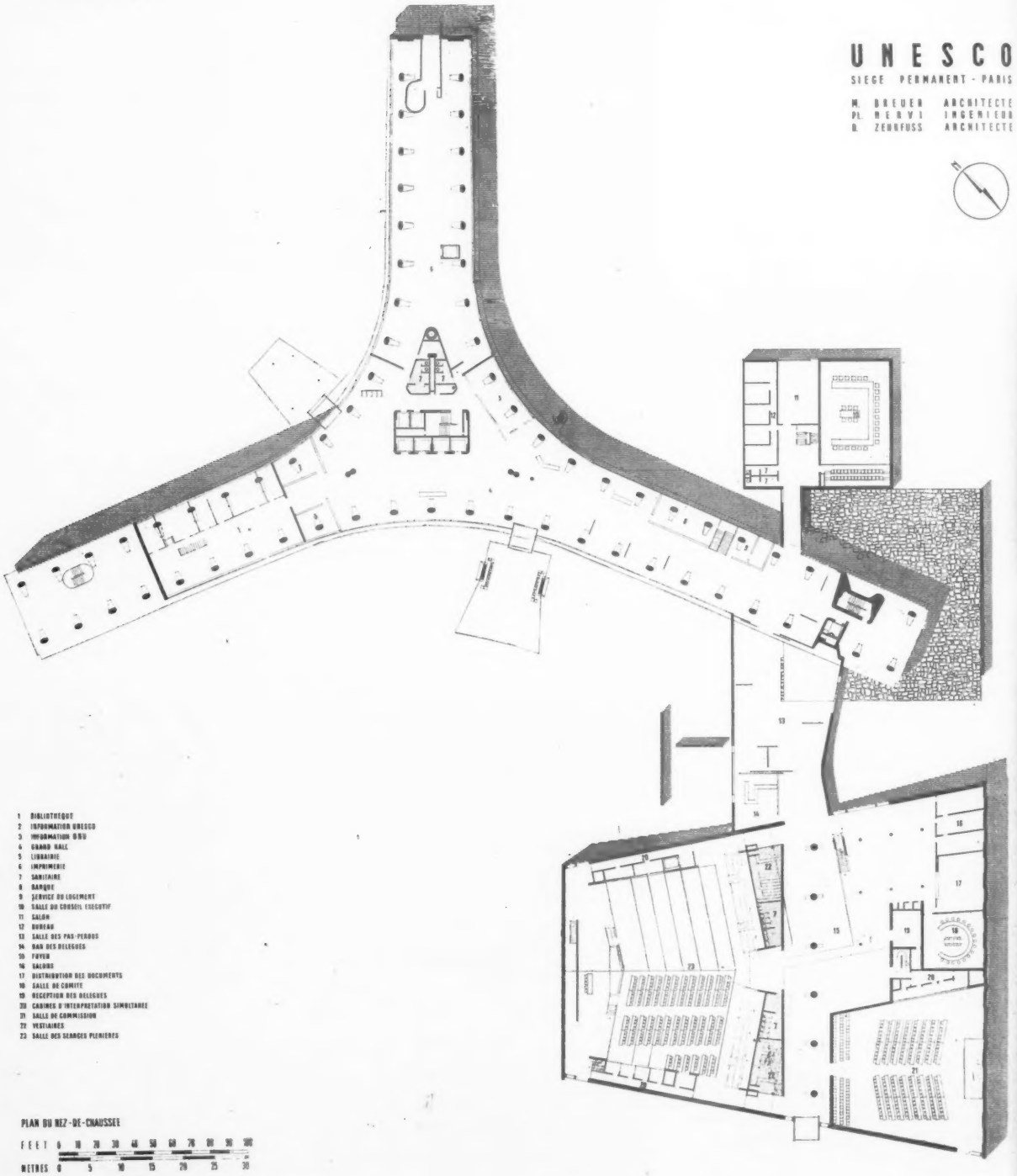


BUILDINGS IN THE NEWS (*continued*)

Unesco Headquarters, Paris (continued)

floor plan below. All three wings are now of differing lengths, and the central core of services, stairs, and lifts, originally in an approximately triangular arrangement, has been replanned as a rectangular block of lifts and stairs with a triangular cloakroom (and on some floors, triangular stores) as islands at the confluence of the three internal corridors. Structurally, no major changes have been made, and the extremely formal, possibly inhuman, constructivist quality of the design remains.

Ground floor plan





Restaurant and Pavilion, Cyprus

This seaside recreation centre at Famagusta, Cyprus, has been designed by the municipal corporation architect, S. N. Economou, assistant A. Hadji Paschalis. Ground floor : changing rooms and verandah. First floor : restaurant, kitchen and sunbathing terrace.



Building Society Offices, Bexleyheath

The conservatism towards contemporary design of building societies has been partly overcome in this design by Ronald Ward and Partners, for branch offices at Bexleyheath for Abbey National. Left, the entrance. Below, general office.



which were then approved were rescinded in January, 1948, and the following were substituted:—

"1. Members who are whole-time salaried or official architects if permitted by their employers to engage in private work must at all times scrupulously observe the Code of Professional Practice, with particular reference to Clauses 4 and 5 thereto.

"2. A member employed by a central or local government department should not seek permission to undertake private work for which he is, by reason of his office, in a position to grant or influence the granting of any form of statutory approval, unless he is completely satisfied that his position and action in the matter will be free from any suspicion or suggestion of abuse.

"It was also agreed to draw the attention of the authorities concerned to the obligation on an official architect member of the Institute to observe Clause 5 of the Code of Professional Practice in regard to carrying out alterations to a requisitioned building for which another architect had previously been responsible."

LIBERTY OF THE INDIVIDUAL

Although there have been complaints since then from private architects about officials undertaking private work outside their office hours, the Council have not amended these principles which are based on the liberty of the individual to occupy his own time as he wills, subject to the observance of the Code of Professional Practice and any limiting terms of his contract with his employer.

Some Local Authorities require that their employees shall devote the whole of their time to their official duties and that they shall not receive any additional salary or remuneration for any further appointment without the sanction of the Council.

There are good arguments both for and against any restriction on private work by official architects and your leader makes a strong case for restriction, pointing to the very real difficulty of keeping the two practices apart in terms of office hours and the risk of appearing to act unprofessionally. On the other hand, if the "principles" accepted by the RIBA and the Code of Professional Practice are scrupulously observed, and there is nothing in the official's contract of service which restricts his freedom out of office hours, it might seem to be carrying professionalism too far if a restriction were imposed by the RIBA or ARCUK purely with the object of protecting the interests of private architects who might suffer by this competition. It is quite possible that some private practices have been founded on these small beginnings.

Whether the scrupulous observance of the Code, the avoidance of the appearance of unprofessional conduct and complete non-interference with

official duties are practical possibilities in particular circumstances must depend entirely on the judgment of the individual, and if there is any doubt at all, he would be wise not to accept the commission.

One's judgment of this problem is bound to be coloured by one's own interests in the matter. The private architect will wish to eliminate competition from a class whom clients might consider influential. The officials concerned will no doubt feel that, within the limitations laid down, they should be free to profit from their willingness to occupy their own time in private architectural practice. Their chiefs will probably have regard to the effect on the performance of official duties and question whether it is always practicable to avoid the intrusion of the problems and responsibilities of private practice into the hours of official business which, it must be remembered, are also largely the hours when the private clients' builders raise their queries and when their activities require supervision. For these reasons many architect chief officers are strongly opposed to their staffs being permitted to undertake private practice.

UNDER-THE-COUNTER WORK BY OFFICIALS

It is true that officials whose contracts are with builders and private individuals wishing to undertake some building development are often asked to assist by making a drawing or by recommending somebody else to do so, but probably in most cases the job consists of translating the client's sketch into a form acceptable to the authority and ends there. In those cases, whilst the danger of appearing to influence a decision exists, there is no responsibility for supervision. And, of course, the officials concerned in this practice are not necessarily architects or subject to any professional code.

As to whether architects in official departments would do less private work if their salary conditions were improved, I am doubtful whether this is a very influential factor. Whatever the salary, the opportunity of earning a few guineas in this way will no doubt always be acceptable and where the commission is complete there is, in addition, the attraction of the rôle of architect free from the limitations imposed by salaried employment.

It is frequently stated that private practitioners cannot afford to pay the salaries offered by local authorities, in which case one would expect, if your thesis is correct, that there would be proportionately more spare-time architects among the assistants in salaried employment in private offices. There is no doubt that this practice does exist but it has not yet, to my knowledge, raised any complaints from private practitioners.



COMPETITION

Ankara Development Plan

An international competition is to be held for a development plan for the city of Ankara (population: 340,000), the capital of Turkey. This has been announced by the Directorate of Development of the Government of Turkey. First prize: £T30,000; (£T1 is worth approximately 2s. 6d.); second prize, £T24,000; third prize, £T15,000. There will be five prizes of £T5,000 for commended designs. The competition is for the improvement of the existing development plan, which has formed the basis for development so far. Competitors will be required to visit Ankara for at least 15 days, and will be given every assistance to study and determine the city's needs. The competition will close on March 10, 1955. Specifications can be obtained from the Turkish Embassy, 43, Belgrave Square, S.W.1, on a deposit of £T100.

New Zealand House Construction

To encourage more extensive use of permanent materials in home building, the New Zealand Government is conducting a competition open to anyone connected with the building industry in New Zealand or overseas. The Minister of Housing, W. Sullivan, states that the Government's objective is to seek ideas for methods of construction and the use of materials which could be applied to a standard house plan, which will be supplied to entrants. This would enable them to devote all their efforts to structural design and selection of materials.

The general requirements of the competition are that the house should be proof against damp, fire, weather and vermin, and that it should eliminate or reduce the use of heart timbers. Economical use of materials and labour would also be important factors in deciding the winners.

The closing date of the competition is December 1, 1954. The first prize will be £200, the second £100, the third £50, and there will be two other prizes of £25. Judges for the competition will be the Minister of Housing, W. A. Lavelle of the New Zealand Institute of Architects, T. N. Dickson, President of the New Zealand Master Builders' Federation, and L. E. Brooker, chief architect and property supervisor for the State Advances Corporation, on behalf of the lending institutions. Application forms for the competition are available from the Official Secretary, New Zealand Government Offices, 415 Strand, London, W.C.2.

PRODUCTIVITY

A Review of the Building Industry

Building is the subject of the sixteenth* in the series of *British Productivity Council Reviews* of post-war developments in certain British industries. In a covering statement the Council writes: Building is an industry whose efficiency or otherwise has an immediate personal impact on the lives of large numbers of people. It is subject to bitter criticism, both informed and uninformed. It is undergoing a major revolution in production techniques, and is now operating at new post-war output records. *The Review* is not a lecture to the industry. It discusses what is going on, the factors which are influencing its development, and how it faces up to its problems. The importance attached to co-operation between all parties to a building contract, from the planning stage on, is reflected in its title, "Getting Together." Mechanisation, new materials, prefabrication, the economics of the tower crane, the extended use of hoists and explosive rivet hammers, and bonus incentive schemes (found to be effective where they are planned with care and understood by all parties) all come in for reference. *The Review* also discusses standardisation, modular co-ordination, tendering and contracting, licensing controls, costing, training and research. Almost inevitably it covers a great deal of the ground gone over by the many special committees set up since the war to inquire into the building industry. Of their findings many are quoted that have had a bearing on productivity.

* "Getting Together"—A Review of Productivity in the Building Industry. British Productivity Council, 21, Tothill Street, London, S.W.1. Price 2s. 3d.

LMBA

Luncheon to the Lord Mayor

In addition to the Minister of Housing and Local Government, Harold MacMillan, and the Minister of Works, Sir David Eccles, Sir Walter Monckton, the Minister of Labour, is attending the LMBA luncheon to the Lord Mayor on September 28

Among the other guests will be the Mayor of Westminster, the Vice-Chairman of the LCC and the Chairman of the Middlesex County Council; the Presidents of the NFBTE and the Federation of Civil Engineering Contractors; the President of the AA and representatives of the RIBA; the President of the IOB, the RICS, the ICE and the Institution of Municipal Engineers; the Masters of the City Companies connected with the building industry and the Director of the City and Guilds of London Institute and the Chairman of the Council of the RSA.

DIARY

Kidbrooke School. Exhibition of plans, photographs and furniture of the LCC's first comprehensive school, at the BC, Store Street, W.C.1, 9.30 a.m. to 5 p.m. 9.30 to 1 p.m. Saturdays. UNTIL SEPTEMBER 30

Practical Aspects of the Housing Repairs and Rents Act, 1954. Talk by F. W. J. Adams, A.R.I.C.S., at the RICS. Admission by ticket only. 5.30 p.m.

OCTOBER 18

LCC Open-Air Sculpture Exhibition. Holland Park. Daily, including Sundays. 10 a.m. until dusk. UNTIL SEPTEMBER 30

COMPREHENSIVE SCHOOL

in CORELLI ROAD, KIDBROOKE, BLACKHEATH, LONDON, S.E.3

designed by SLATER, UREN and PIKE

partner-in-charge CHARLES PIKE, chief assistant architect, H. C. WILSON

consulting engineers (structural) OVE ARUP and PARTNERS

(mechanical, heating and electrical) EDWARD A. PEARCE and PARTNERS

quantity surveyors, SELBY and SANDERS



The Kidbrooke Comprehensive Secondary School for Girls at Blackheath is the first of the LCC's comprehensive schools to be completed, and came into use last week. The initial number of pupils is 1,700, which will be increased in succeeding years to a total capacity of over 2,000 pupils. The girls are divided into eight " houses," each in charge of a housemistress.

The north-east teaching wing.

The south facade of the assembly hall block.



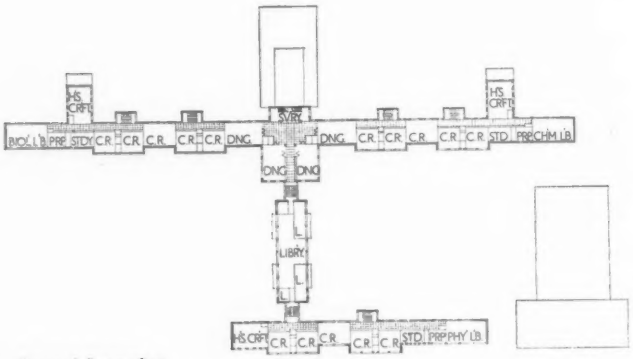
COMPREHENSIVE SCHOOL

at BLACKHEATH, LONDON, S.E.3

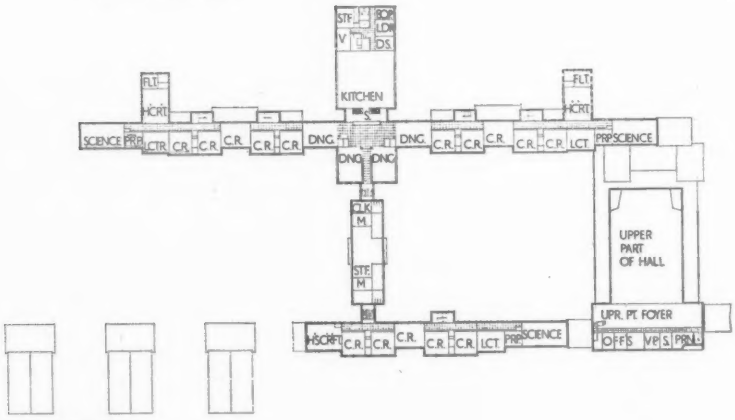
designed by SLATER, UREN and PIKE

SITE.—The school is built on a site of nearly 10 acres, which slopes down gently from north to south. To the west of the school are about 16 acres of playing fields, which will include eight hockey pitches and eight hard tennis courts. Hard play areas are situated along the southern boundary of the site and there will be lawns and flower borders.

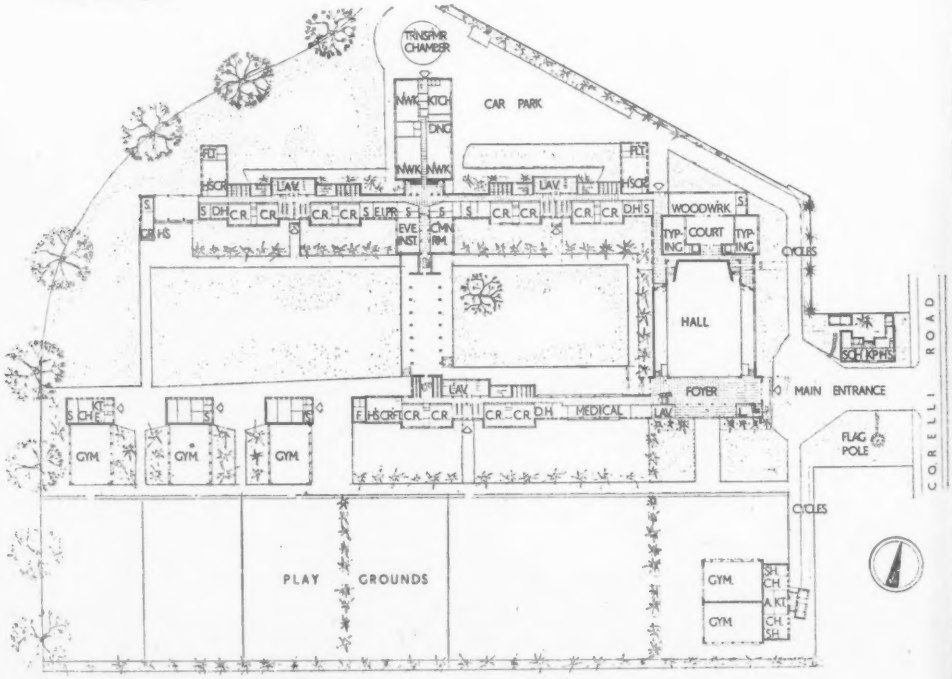
PLAN.—Most of the teaching rooms are in three 4-storey blocks. These blocks are parallel to the south boundary of the site, and are linked centrally by a fourth block on a north-south axis.



Second floor plan



First floor plan



Ground floor plan and site layout [Scale : $\frac{1}{2000}$]

KEY

PRP = Preparation room.

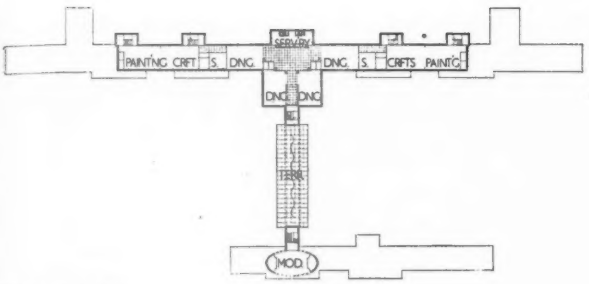
STF = Staff room.

DS = Dry Store.

FLT = Housecraft flat.

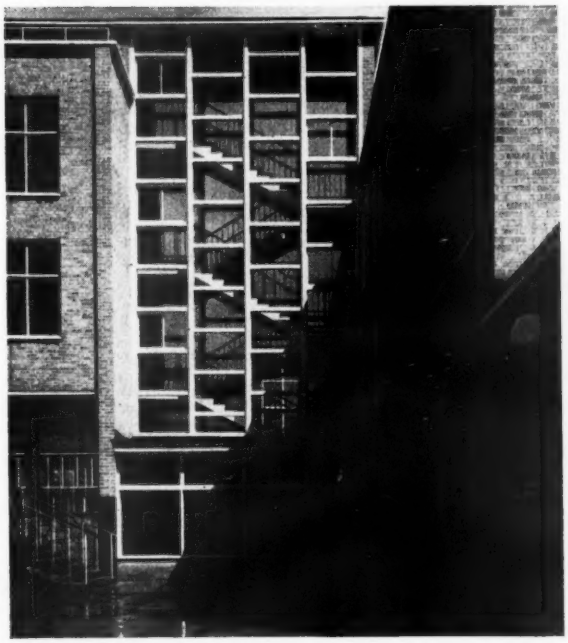
EIPR = Evening institute principal.

DH = Departmental head.



Third floor plan

containing staff rooms and the library. In each block there are ordinary and practical classrooms, as well as cloakrooms and lavatories. This distribution will avoid unnecessary movement of children between classes. There is a large kitchen in the northern long block and meals are taken in nearby rooms, on three floors. These rooms are intended to be used, as far as possible, for teaching and other purposes. On the eastern side of the site, opposite the main entrance, there is a large foyer leading to the assembly hall, which seats nearly 1,500. The hall will accommodate all the pupils, when standing, for morning prayers. The door screen between hall and foyer may be opened to full width to allow additional seating space in the entrance foyer. The girls will work in forms of about 30 and courses will be planned to suit pupils of varying ability. There will be academic courses leading to ordinary, advanced and scholarship levels of the general certificate of education, and special courses in housecraft, needlecraft, catering, millinery, tailoring, dressmaking, pre-nursing and commercial subjects. Advanced courses for girls staying two or three years in the VI form will include English, history, economics, geography, geology, Latin, Greek, French,



Right, staircase junction between the central library and staff-room block and the south teaching block. Below, canopy and wind break of wood slats on the roof terrace above the library. Bottom left, corner of the staff common room. Bottom right, looking under the centre block into the enclosed courtyard.



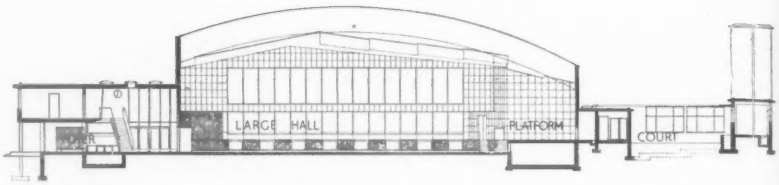




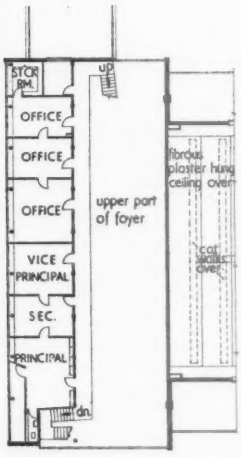
COMPREHENSIVE SCHOOL

at BLACKHEATH, LONDON, S.E.3

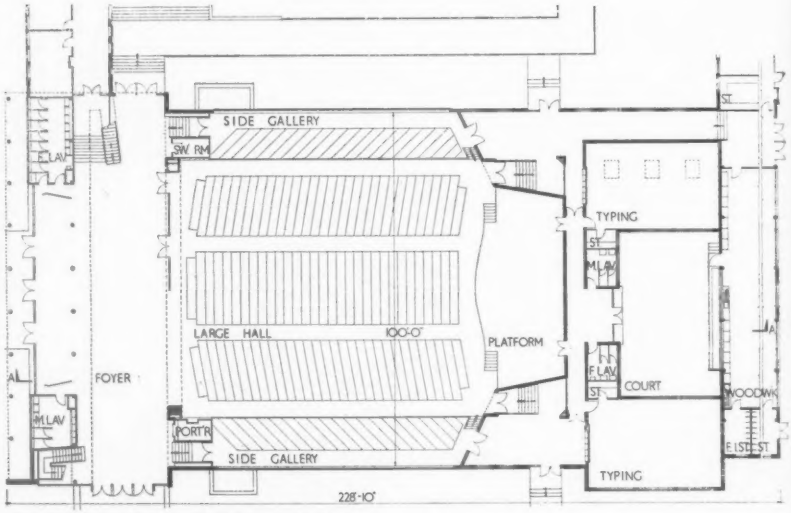
designed by SLATER, UREN and PIKE



Section A-A [Scale : $\frac{1}{16}$" = 1' 0"]



First floor plan



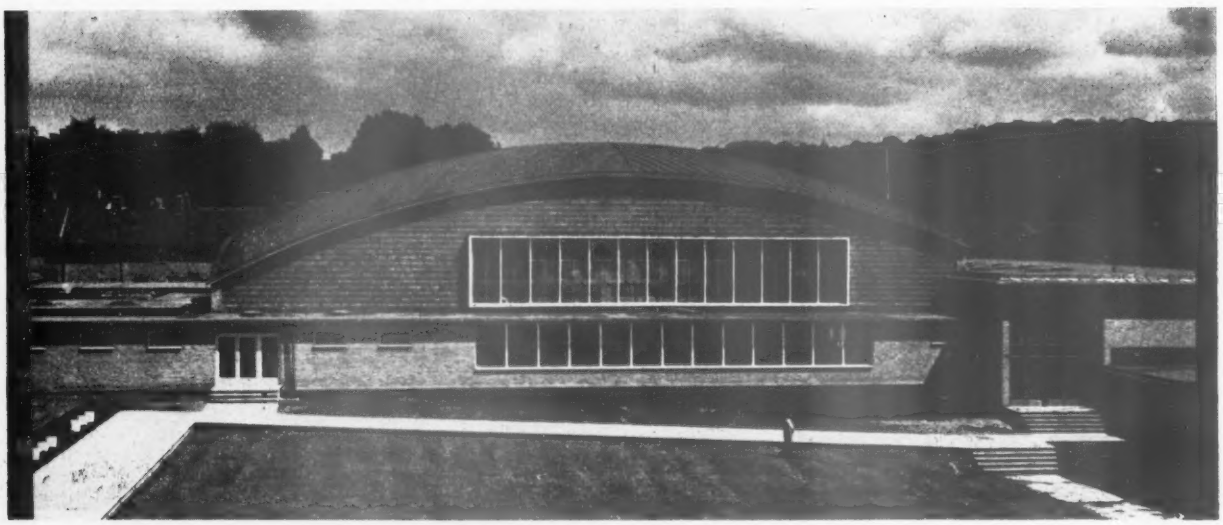
Ground floor plan, assembly hall block

German, Spanish, music, art, pure and applied mathematics, zoology, botany, physics and chemistry. The circulation area is 19 per cent. of the total area. There is corridor circulation at ground floor level and on the upper floors, short lengths of corridor and the larger classrooms used as linking units.

CONSTRUCTION.—The school generally has a reinforced concrete frame, with brick panel walls. The classroom blocks are of r.c. slab, beam and



Right, doors leading to hall (on left of the stage) to west side gallery and enclosed courtyard. Below, west facade of the assembly hall block.

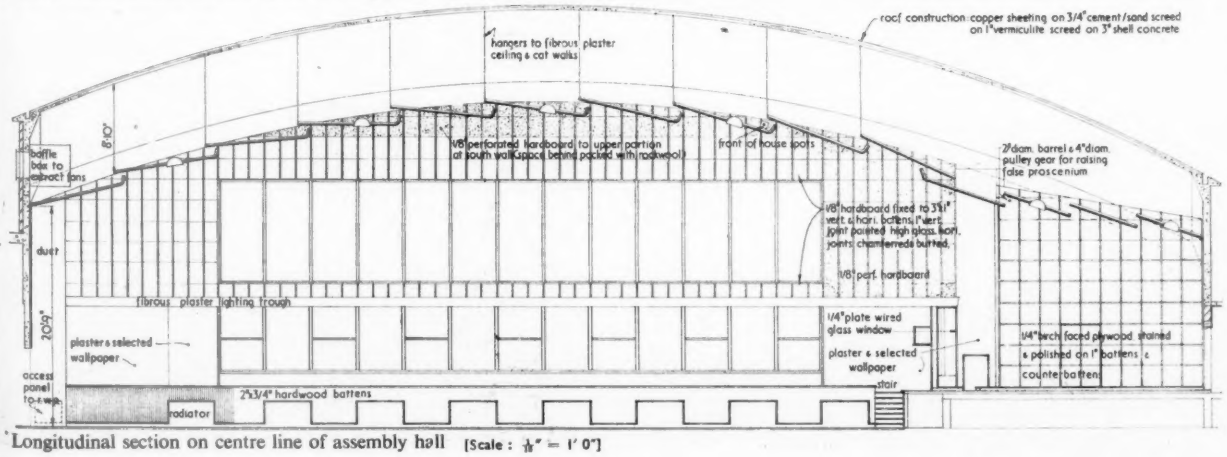




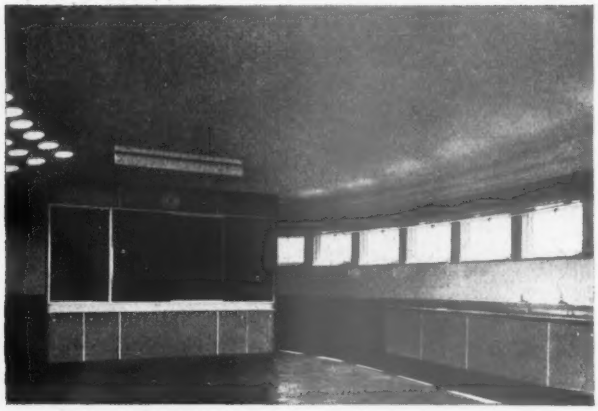
Above, the assembly hall looking towards the stage and east side gallery. The flooring is Japanese maple. Right, the assembly hall foyer and gallery access to offices on first floor.

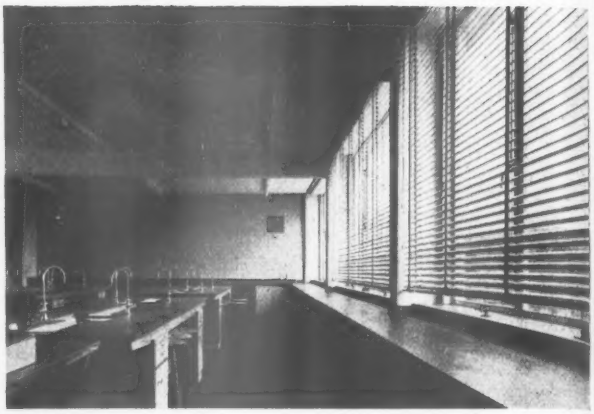


column construction, with a shell roof over the kitchen and north light shells over the craftrooms. The chief interest, structurally, is in the main assembly hall, which has a 3-in. thick concrete dome on a rectangular plan. The upper part of the four sides of the hall consists of 8-in. thick walls monolithic with the dome and this box-like structure is ultimately supported by one column at each corner. These walls, at a lower level, contain large window openings and on either side of the hall they carry at their lower edge a flat roof over a side gallery, which extends the hall space to a larger area.

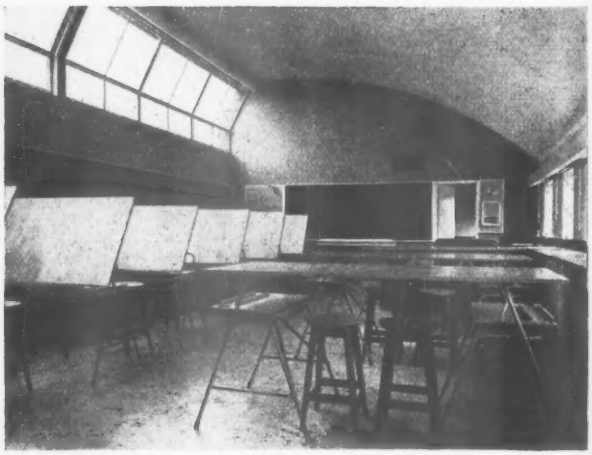


Longitudinal section on centre line of assembly hall [Scale : $\frac{1}{16}$" = 1' 0"]

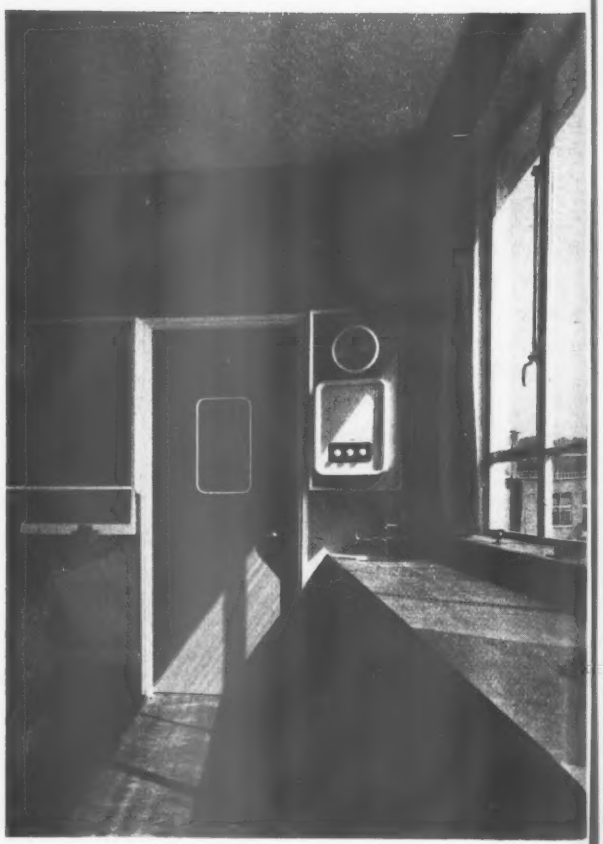








Top, modelling and art room, third floor, south block. Top right, science laboratory. Centre left, main kitchen. Centre right, typical craft room on third floor of north teaching block. Right, loudspeaker and clock unit in typical teaching room. The loudspeakers in the school can be used for broadcasts, class changing, fire alarms and public address from the headmistress's room. Certain loudspeakers are fitted with a "speak-back" device.



COMPREHENSIVE SCHOOL

at BLACKHEATH, LONDON, S.E.3

designed by SLATER, UREN and PIKE

Post-tensioning by the Freyssinet system was used in the boundary walls to deal with their combined action of beams carrying the vertical loads and ties resisting the spreading forces from the dome. The dome is almost entirely in a membrane condition, that is, free from bending, and this is largely being brought about by the prestressing in the boundary members. The small oval concrete mullions in the windows through the side walls act as hangers carrying the low flat side roof slabs. A feature that has a marked influence on the exterior appearance of the hall is that rainwater is conducted to the outlets at the corners by slots sunk near the edges from the otherwise uninterrupted surface instead of by small parapet upstands. Structural

continuity of the dome and boundary walls is obtained by interior haunching large enough to incorporate the slots.

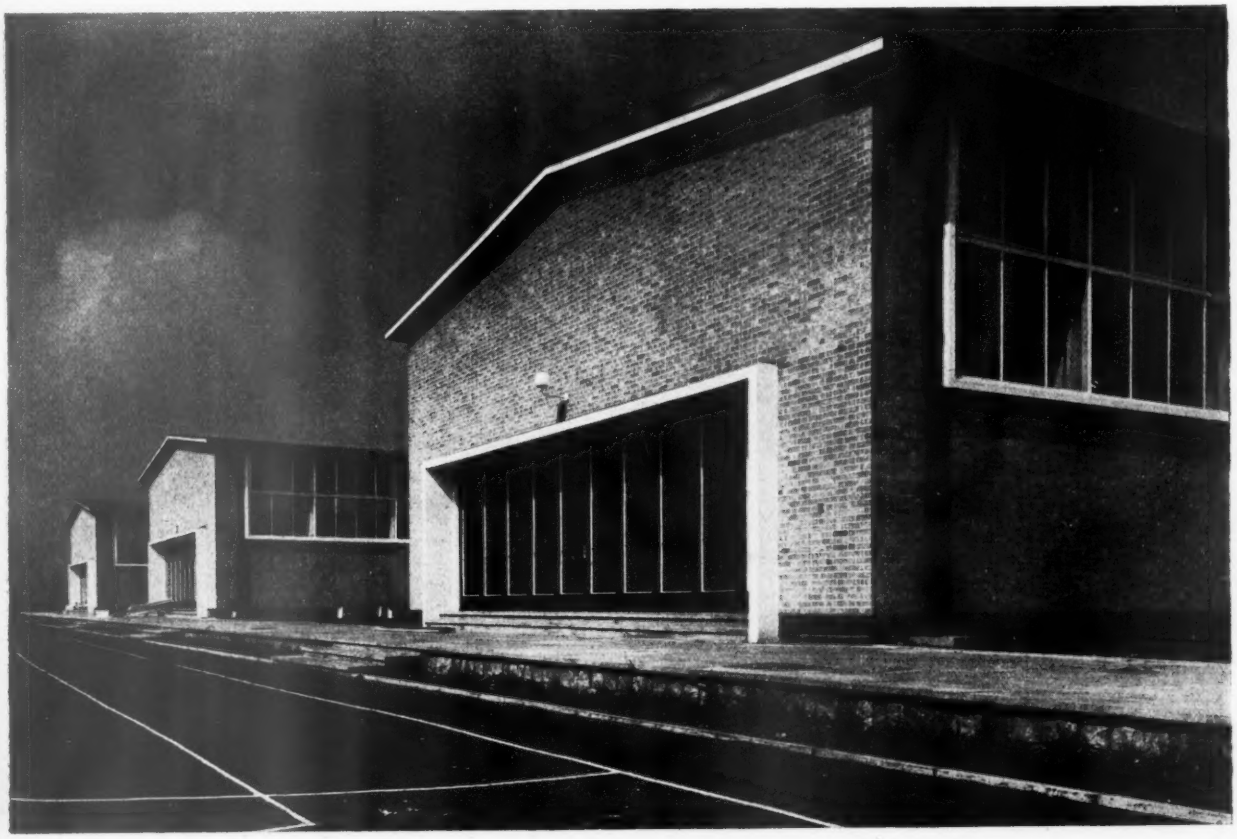
FINISHES.—The main hall roof is finished with copper and internally there is a hung ceiling of fibrous plaster panels. Floor finishes include thermoplastic tiles in general classrooms, similar tiles, but greaseproof, and buff quarry tiles, in housecraft rooms; linoleum laid in tile form, in corridors; aframosia blocks in science rooms. The shell concrete roofs of the kitchen and art rooms and ceilings in foyer and housecraft rooms have a sprayed plastic finish to reduce noise and condensation.

SERVICES.—Space heating is effected by means of radiators, pipe coils and warm air circulators, served by four oil-fired boilers. The assembly hall background heating by radiators is supplemented by two plenum plants, one under each gallery, delivering a total of 22,000 cub. ft. of fresh, warmed air per minute from behind the radiators. Work was begun in April, 1951, and costs are estimated to be £560,000. Loose furniture and equipment will cost about £55,000. General contractors, Gee, Walker & Slater Ltd. Sub-contractors, page 389.

Below, glass panels in changing room showers. Below right, typical gymnasium. The floor-ing is of gurjun boarding. The sliding-folding doors are on the south side. Bottom, the three free-standing gymnasia to the west of the south teaching block. The main external cladding materials used throughout the school are yellow-brown Leicestershire facing bricks, Canadian cedar shingles which will weather to a silver grey, and coloured tiles. Internally walls and ceilings are generally plastered and finished with emulsion paint.







FLATS

in BOUNDARY ROAD, LONDON, N.W.8

for the ST. MARYLEBONE BOROUGH COUNCIL

designed by EDWARD ARMSTRONG and FREDERICK MacMANUS

assistant architects, G. E. P. DAY, F. J. P. TONI and R. D. LYONS

consulting engineers, BYLANDER and WADDELL, quantity surveyors, WILLIAM INMAN and PARTNERS

Waltham House is a block of 48 flats in St. John's Wood on a site of 1½ acres in a residential neighbourhood. Due to the shape and orientation of the site, the block was planned roughly on a north-south axis, but a south aspect for all private balconies has been obtained by the zig-zag shape of the block. The small, two-room flats, which do not have private balconies, are provided with inward-opening casement doors to the living rooms and have flower boxes within the guard railings.

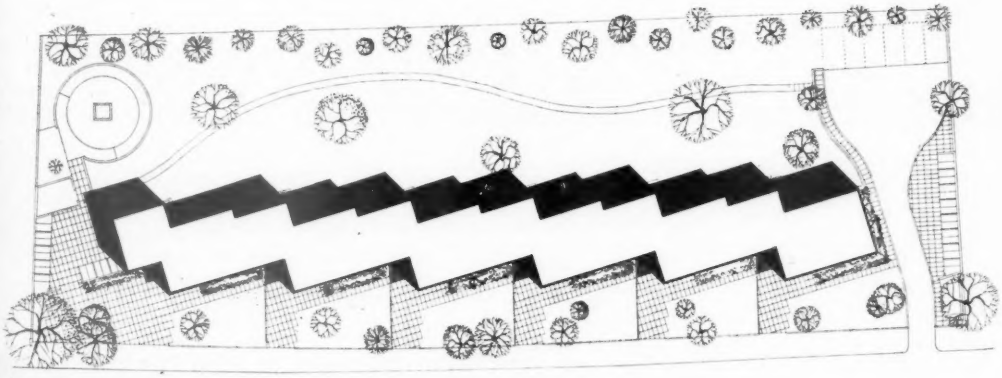
The flats from the north.



Right, the south-east facade seen from the children's play area, which is near the north-east corner of the block. The sunk portion of the area is now filled with sand.



PLAN.—The size of flats varies from two to four rooms and all are approached by internal staircases. The private balconies to the three and four room flats are shielded from each other as a result of the stepping back of the external walls on the south-east elevation, and also do not obstruct light to the living rooms. At the south corner of the site six garages will be built at a later date and there is a children's play space with sunken sandpit and playframe at the north east corner of the block.



Site plan



KEY

1. Living room
2. Bedroom
3. Kitchen

Part third floor plan, showing three types of flat [Scale : $\frac{1}{8}$" = 1' 0"]



Above, Waltham House from the south. Below, close-up of the south-east facade showing private balconies, which are provided to all three- and four-room flats. On the right are french windows, with guard railings to the one-bedroom flats.

FLATS

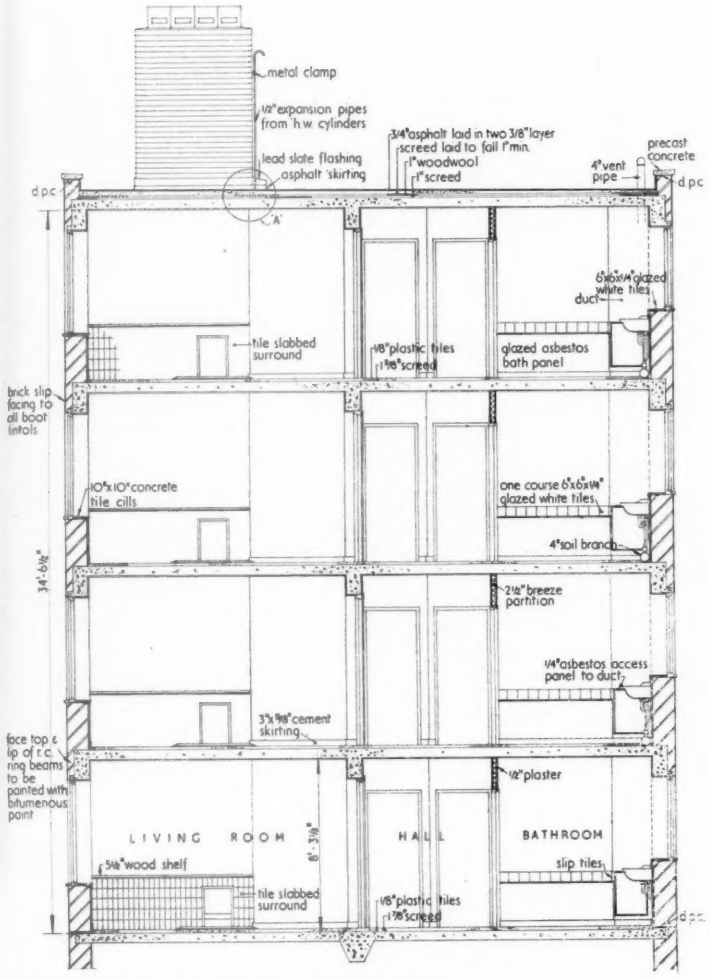
in BOUNDARY ROAD, LONDON, N.W.8

designed by EDWARD ARMSTRONG and FREDERICK MacMANUS

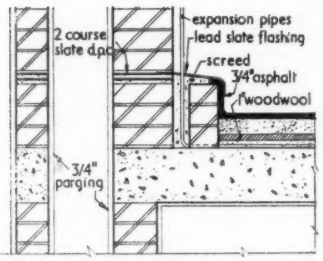


CONSTRUCTION.—The flats have load-bearing external walls of calculated brickwork and solid reinforced concrete floors and roofs.

FINISHES.—The external finish is of Leicestershire buff facing bricks. Windows are purpose-made and mostly of a horizontally pivoted type that can be reversed for easy cleaning. Staircases have coloured matt glazed tile dadoes, with plastered and painted walls and soffits. The internal finishes to flats include thermoplastic tile floors and some white glazed tiling in kitchens and bathrooms. Kitchens are fitted with modified standard units which are factory made and finished, the framing of which is



Typical cross section facing south [Scale : ½" = 1' 0"]



Detail at A [Scale : ½" = 1' 0"]

clear cellulose finished so that it may be touched up after fitting into position.

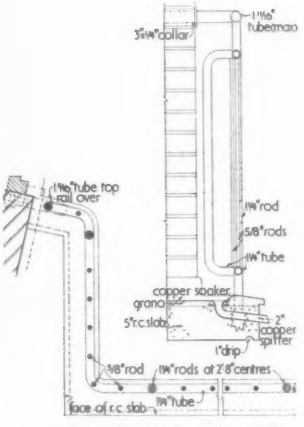
SERVICES.—Space heating and hot water are provided by continuous burning grates with back boilers situated in living rooms and also with convector panels in adjoining bedrooms. The solid fuel stores within the flats have automatic locking delivery hoppers from the staircase landings. For clothes washing there are gas coppers in kitchens and gas drying cupboards for communal use on staircase

Below, the flats seen across Boundary Road, which borders the site on the north-west.





Left, a detail of the private balconies, which, due to the zig-zag shape of the plan all face south and are shielded from each other.



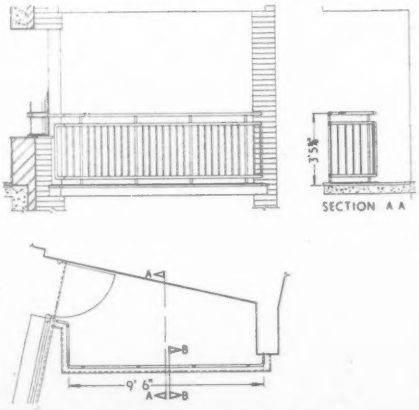
Part plan and section B-B
[Scale : ½" = 1' 0"]

FLATS

in BOUNDARY ROAD, LONDON, N.W.8
designed by EDWARD ARMSTRONG and FREDERICK MacMANUS

half landings. Each flat has the choice of electric or gas cooking and conduits are provided for telephone installation if required. Refuse disposal is by means of chutes to container chambers at ground level.

The general contractors were J. M. Hill & Sons Ltd. For sub-contractors see page 389. Contract price : £92,127.



Elevation, plan and section A-A of typical private balcony [Scale : ½" = 1' 0"]

TECHNICAL SECTION

In February, 1953, and again in January of this year the SIA approached the Chancellor of the Exchequer and asked if he would allow the owners of Industrial buildings to charge expenditure incurred in installing fuel saving insulation and equipment against revenue for tax purposes in the year in which it was incurred.

At the moment, since fuel costs are chargeable against revenue while expenditure incurred in reducing them is not, there is insufficient economic incentive for the factory owner to save fuel. For though insulation and fuel saving equipment bring their own reward in the long run, they are expensive to instal. The main point in the SIA's argument therefore was that the country cannot afford the fuel wastage which must ensue if their general adoption is delayed by the present unfavourable tax interpretation.

The SIA are, of course, an interested party and it would in any case be rash for the layman in tax matters to say whether their particular solution is the right one. But it is true enough that the incidence of Income Tax bears directly on standards in building and that it is in the interests of everyone and particularly of architects to ensure that income tax arrangements encourage good building practice.

This week's special feature

21 CONSTRUCTION: MISCELLANEOUS

shopfitting

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

Shopfitting is a branch of architecture which in this country comes rarely under the control of the architect, and for this reason is relatively unfamiliar to him. This week, therefore, we take the opportunity of describing the rebuilding of Messrs. Dolcis' premises at Marble Arch to the designs of the company's staff architect, Ellis Somake. This job was carried out over the August Bank Holiday, in a total of 65 hours; and thus, as speed of erection is inseparable from this class of work, this job serves to throw into relief some of the characteristic problems of shopfitting.

The decision to complete the work of refashioning the Marble Arch Branch over the August Bank Holiday was not taken until a few weeks before the work was done. Dolcis, like other big stores, have been accustomed to carrying out important building operations over the August holiday, but neither they nor the contractors, Messrs. Courtney Pope Ltd., have previously attempted the dismantling and rebuilding of a complete shop between the normal closing time on Bank Holiday Saturday and the normal opening time on the following Tuesday, allowing three hours for the shop assistants to arrange their stock. To do the job in this time required a labour force of 150 men, working in two shifts; and to provide this muster the contractors had

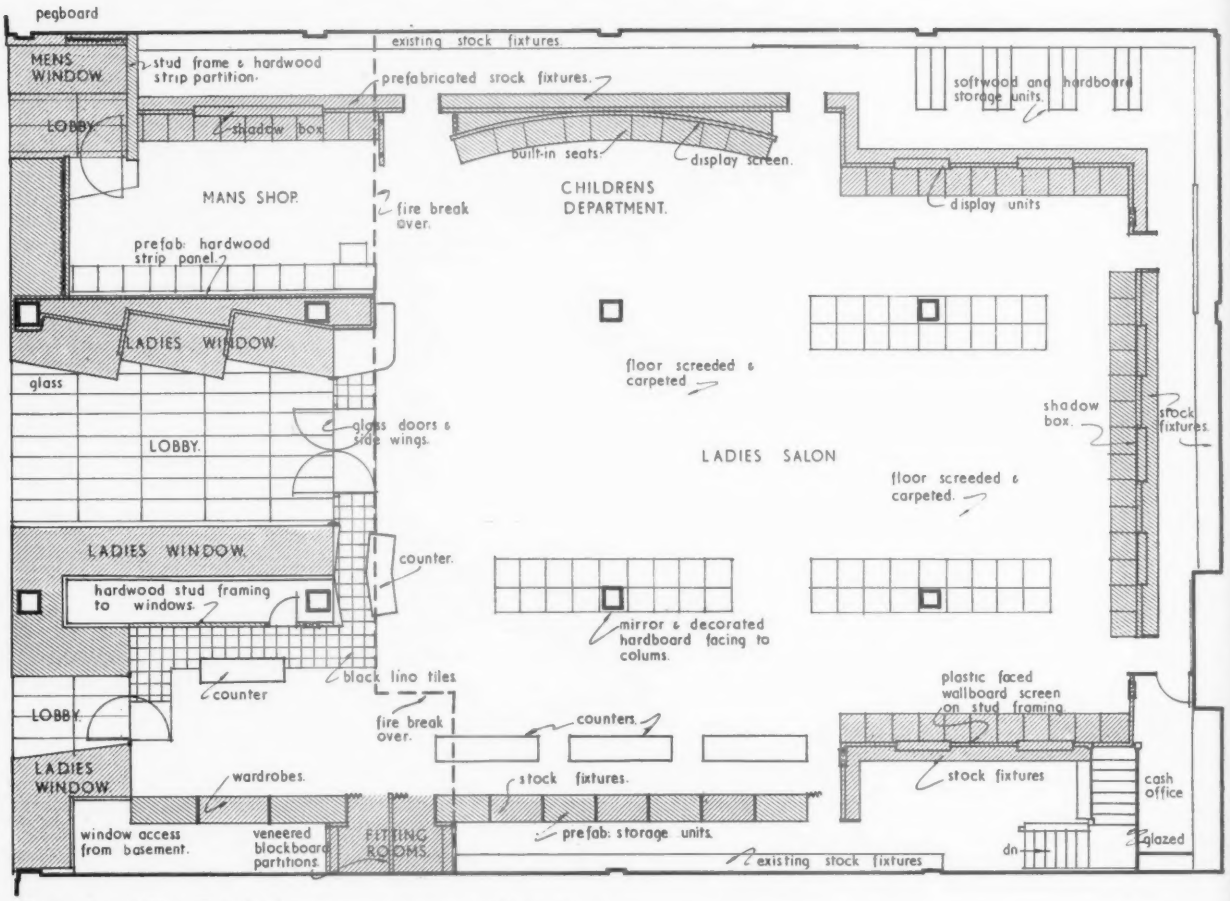


Fig. 1. Layout Plan. Each tinted area represents a separate prefabricated unit.

to summon men from their contracts in other cities, the total extra cost on account of overtime amounting to about 10 per cent. of the contract figure.

Since it is normal practice in shopfitting to prefabricate as far as possible, the decision to work to so close a timetable on the site had a relatively slight effect on detailing. It was chiefly a matter of making up the separate parts in the contractors' factory into larger units than would otherwise be the case. It is interesting to note that, following the usual practice for this type of work, the architect had originally prepared quarter-inch scale drawings and a specification for purposes of going to tender, and that the complete full size drawings (the "rods" as they are called in the trade) were made subsequently in the contractors' setting out department, but under the architect's supervision. Another point to be noticed is that the shopfitters were the main contractors and were themselves responsible for correlating the drawings and the work of all specialist sub-contractors, including that of Messrs. Lamson, whose pneumatic cash delivery system is only on hire to the building owner. This correlating of drawings by the main contractor is important in a class of work which has to be carried out to so high a degree of precision. All work on the site, therefore, was carried out under the personal supervision of Mr. E. R. Barrett, Works Manager and Technical Director of Courtney Pope Ltd.

Since the shop premises form part of the Mount Royal block, an added complication arose from the need to interrupt the general sprinkler system covering the whole of Mount Royal. The whole system had to be drained down (a process which took four hours) then plugged and turned on again while the shop's new sprinklers were being fixed: then drained a second time to enable the new sprinklers to be connected up.

The only part of the work to be carried out in advance was the fixing and

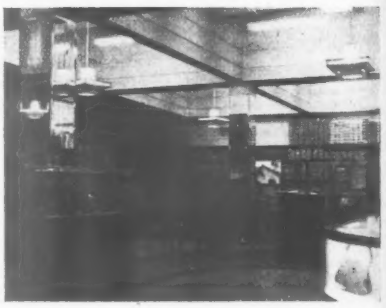


Fig. 2. Shop before work began.



Fig. 3. General view of the interior after the completion of the work.







er the com-



WORKING DETAIL **WALLS AND PARTITIONS: 17**

GLASS CURTAIN WALL: OFFICE BUILDING IN NEW YORK

Skidmore Owings and Merrill, architects

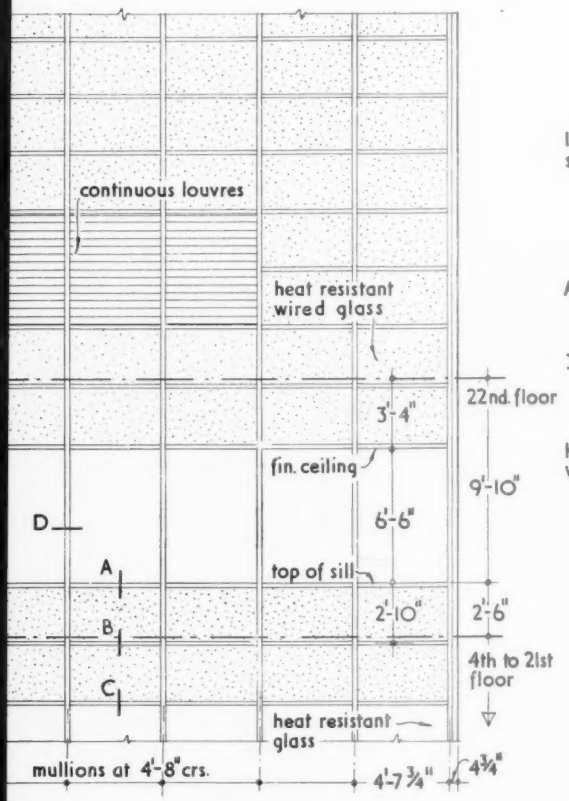


The mullions which are attached direct to the main supporting structure comprise two 5½ in. × 1½ in. × 3/16 in. steel channels which interlock but do not touch and thus serve as expansion joints. They are concealed on the outside by a coverstrip of 16 gauge stainless steel.

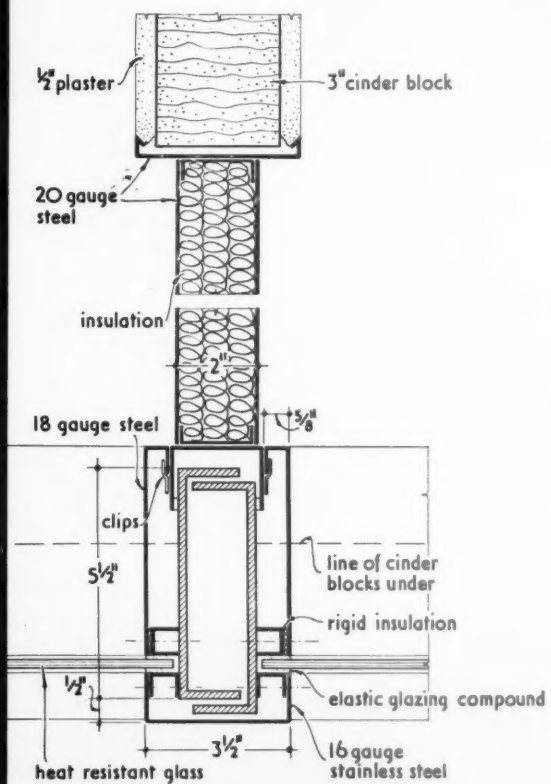
WORKING DETAIL

GLASS CURTAIN WALL: OFFICE BUILDING IN NEW YORK

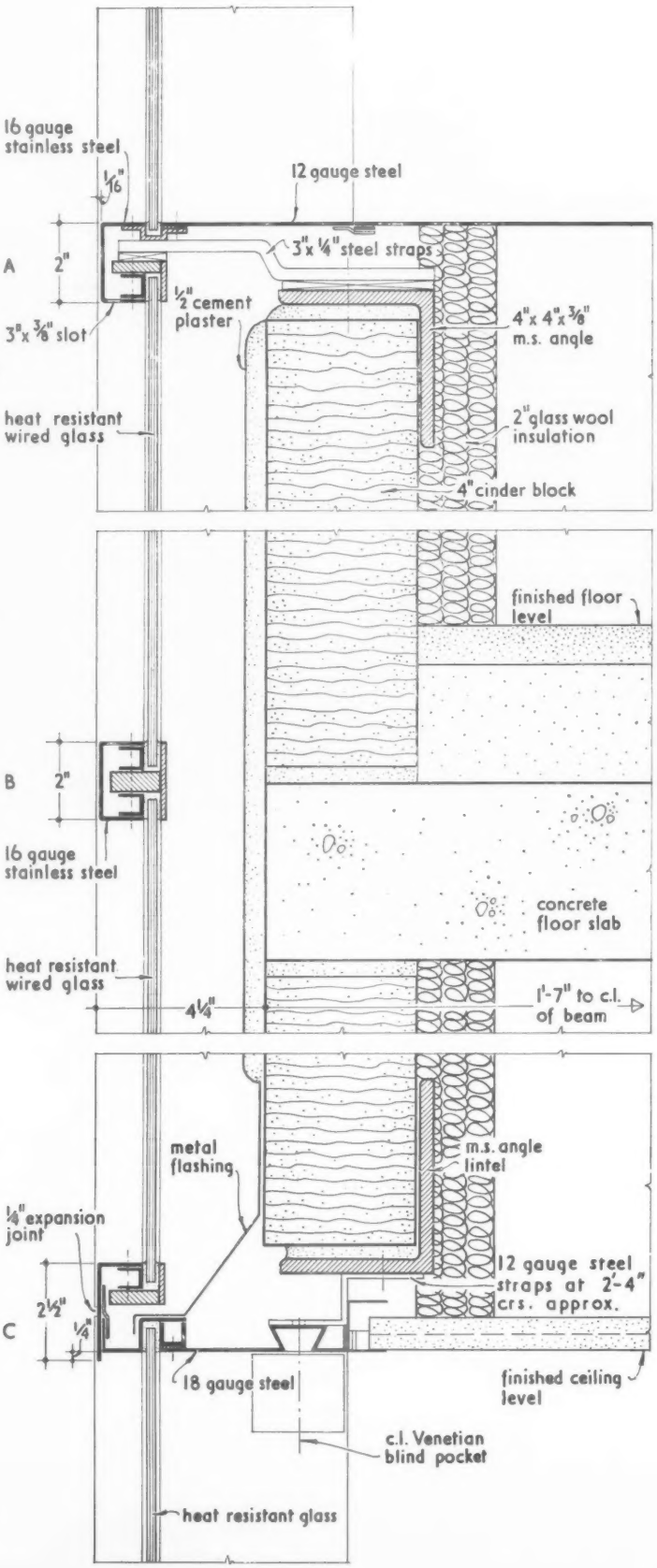
Skidmore Owings and Merrill, architects



KEY ELEVATION OF GLASS CURTAIN WALL. scale ⅛"=1'-0"



PLAN AT 'D' scale ¼ full size

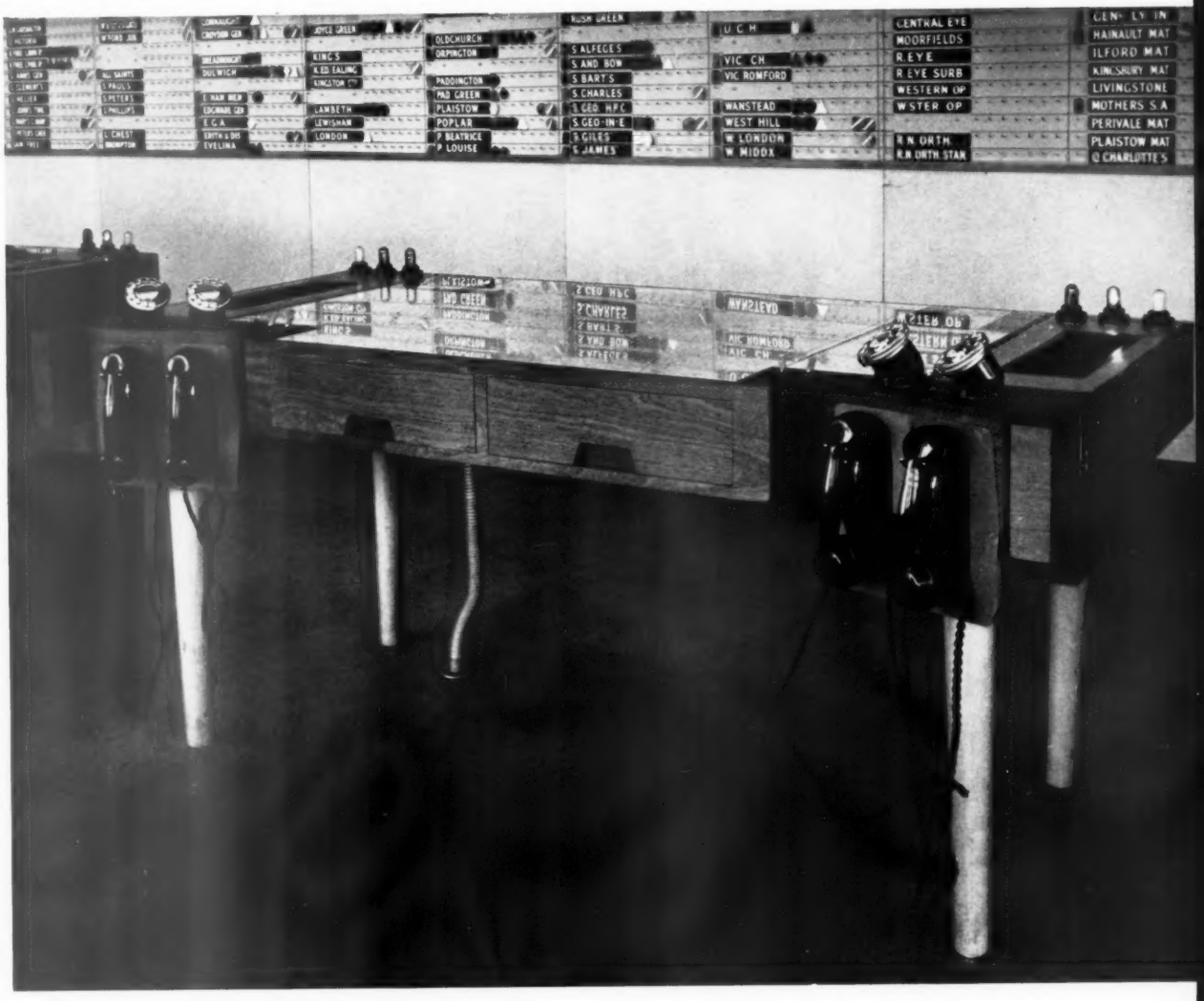


SECTION THRO' GLASS CURTAIN WALL. scale ¼ full size

WORKING DETAIL

TELEPHONE TABLE: OFFICES IN LONDON, S.E.1.

John Lacey, architect ; C. F. Timothy, associate architect

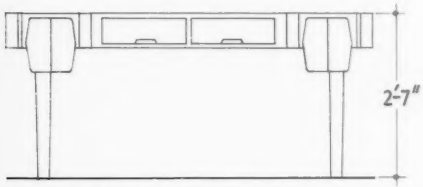


A handed telephone table for two operators for use in the Emergency Bed Service. The removable perspex top serves to cover a map of the London area to which the operators have frequently to refer. So that the top may be kept clear of obstructions the desk has been provided with filing baskets on either flank. The legs of the desk are screwed into fixing blocks attached to the underside of the blockboard sheet which forms the structural top of the desk.

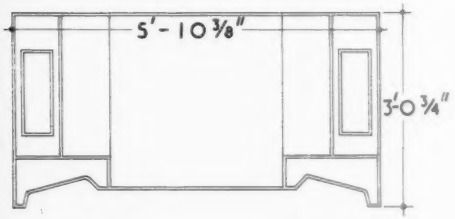
WORKING DETAIL **FURNITURE AND FITTINGS: 44**

TELEPHONE TABLE: OFFICES IN LONDON, S.E.1.

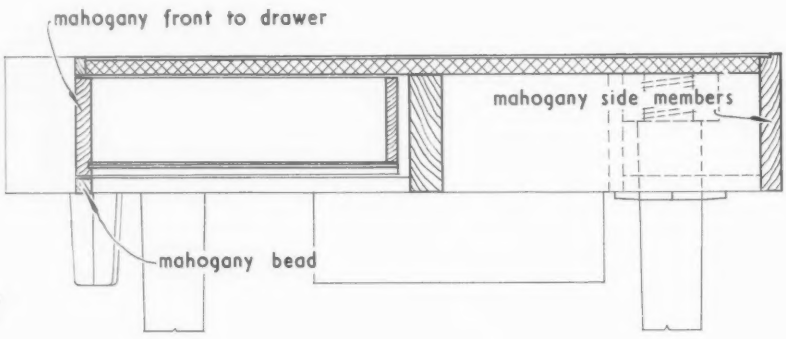
John Lacey, architect ; C. F. Timothy, associate architect



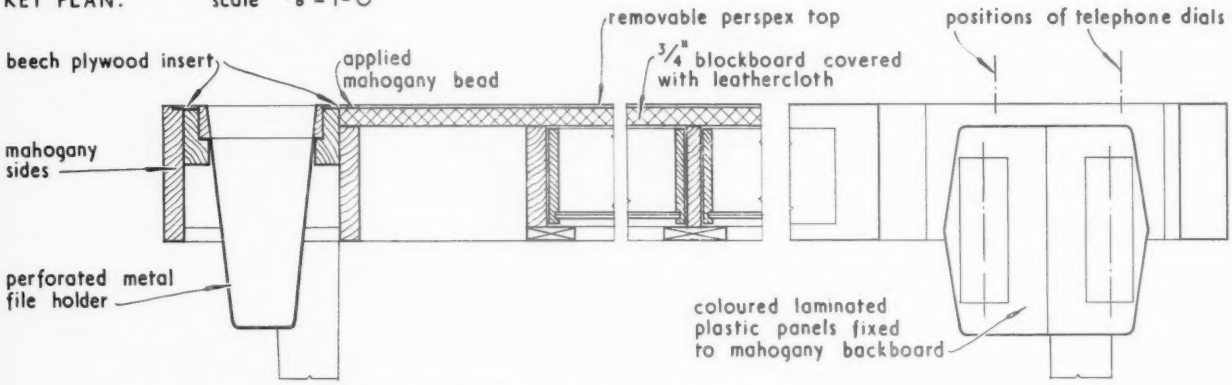
KEY ELEVATION.



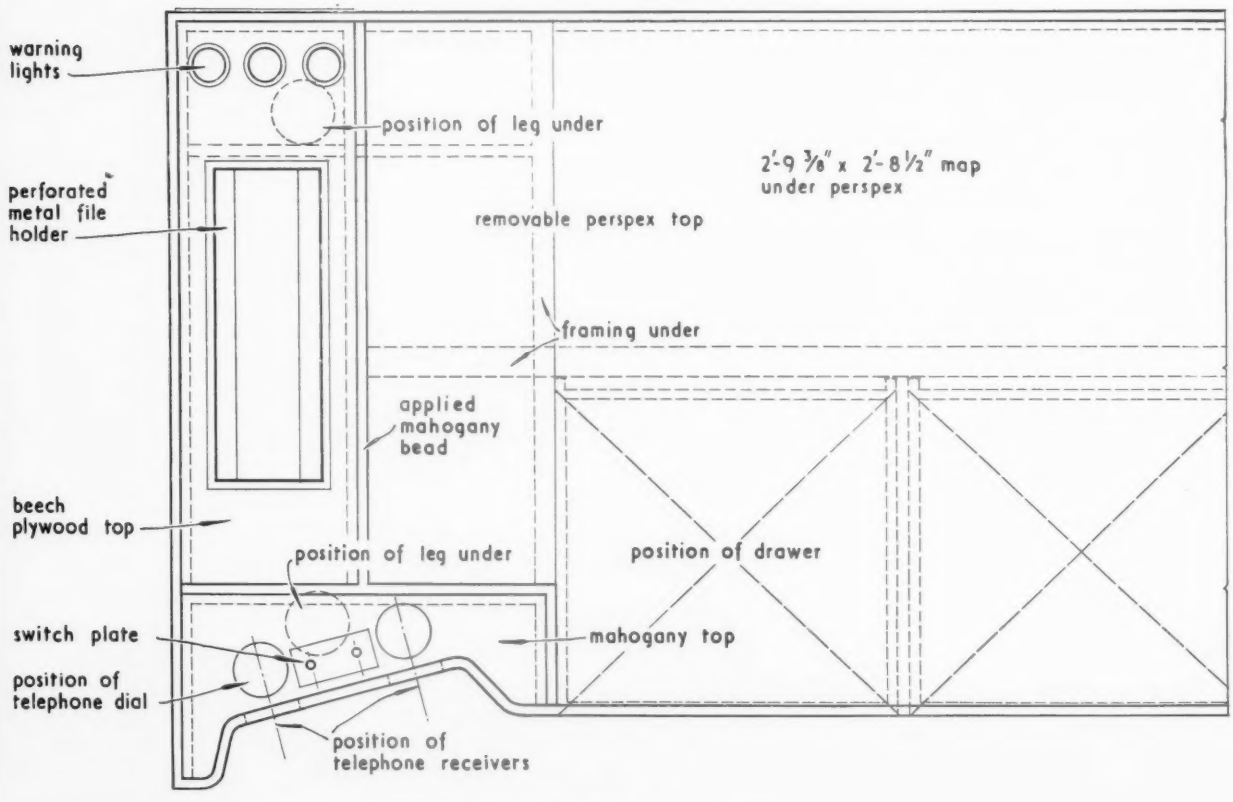
KEY PLAN. scale 3/8" = 1'-0"



CROSS SECTION.

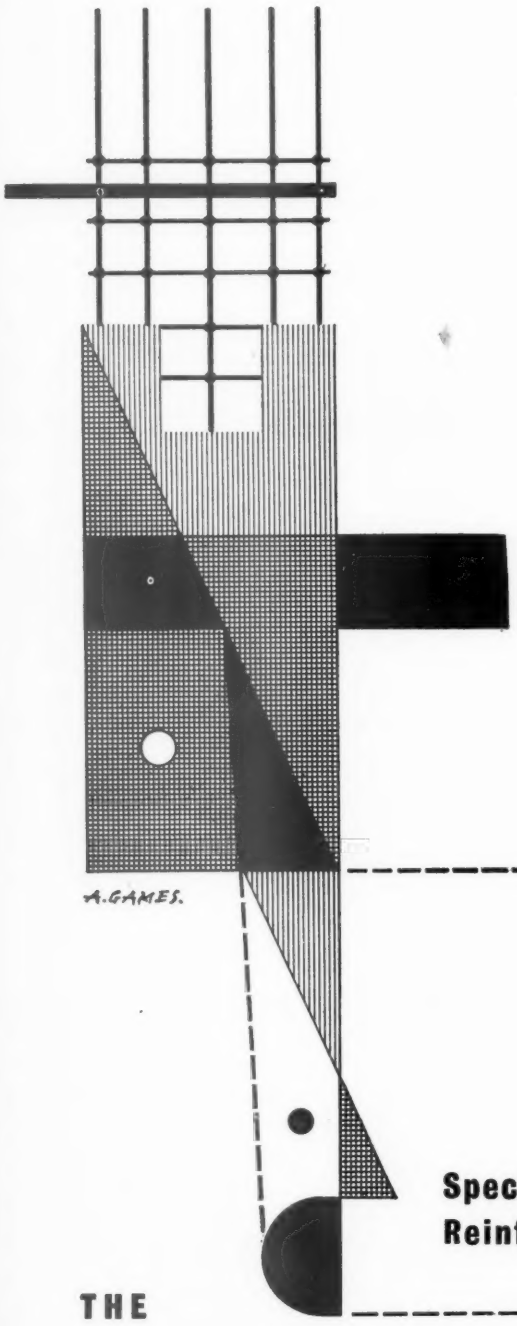


PART LONGITUDINAL SECTION AND ELEVATION.



PART PLAN scale 1 1/2" = 1'-0"





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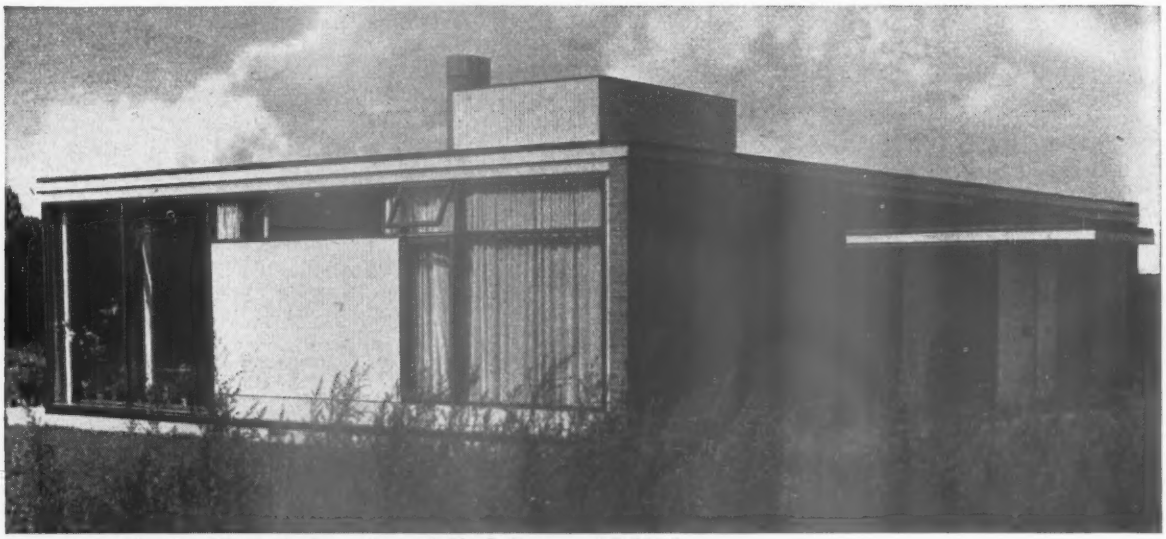
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House designed for himself by Stefan Buzas, James Cubitt & Partners, A.R.I.B.A.

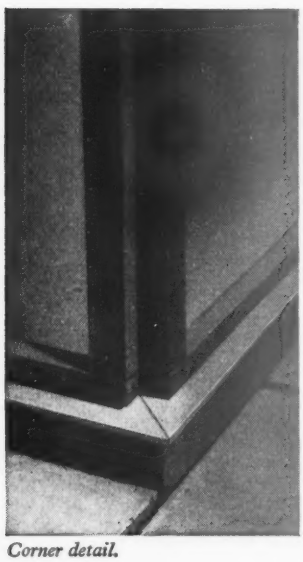
ZINC WEATHERINGS

From roof to foundation, zinc has vitally important uses in contemporary building—for gutters, pipes, weatherings, flashings and hoods. In this striking house, all horizontal projections, as well as the verges to the flat roof, are provided with zinc weatherings.

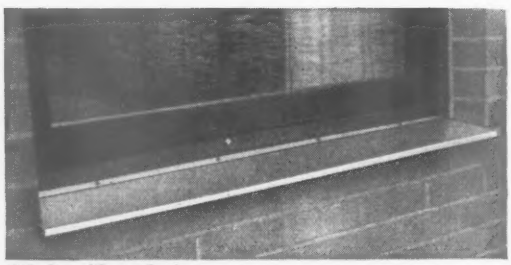
For weatherings, zinc is unique because it is non-staining, rigid but still easily formed. And there are now no restrictions on its use. Supplies are plentiful, and likely to remain so. The price of zinc has dropped considerably, and it is now one of the cheapest permanent materials.

The Zinc Development Association is a non-trading body which is always prepared to give technical help to potential users. Publications, together with lists of stockists of all zinc building materials and of firms specialising in zinc work, are freely available.

THINK ZINC (Zn)



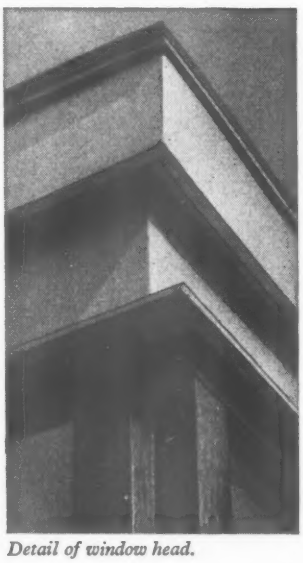
Corner detail.



Window sill weathering.



Detail of roof verge.



Detail of window head.

ZINC DEVELOPMENT ASSOCIATION • LINCOLN HOUSE • TURL STREET • OXFORD • TELEPHONE OXFORD 48088

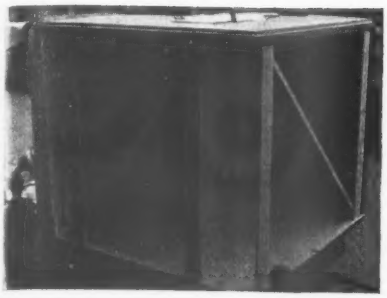


Fig. 4. "Dolores" window prior to fixing (see detail in Figs. 6 and 7).

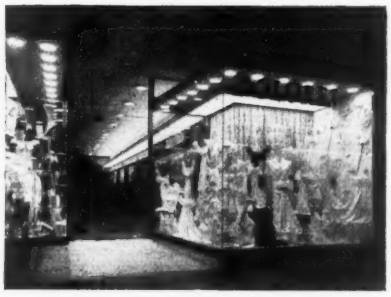


Fig. 5. "Dolores" window as fixed. Note glass-to-glass bonding in doorway.

wiring of those parts of the electrical equipment which were positioned against the side and back walls, as this work could be carried out with little inconvenience to the working of the shop.

One last and important point to notice is that the sanitary accommodation in the basement (together with the stairway leading to the basement) remained substantially unaltered from the previous shop, and that there was therefore no plumbers' or drain layers' work to be done.

INTERIOR SCREENS

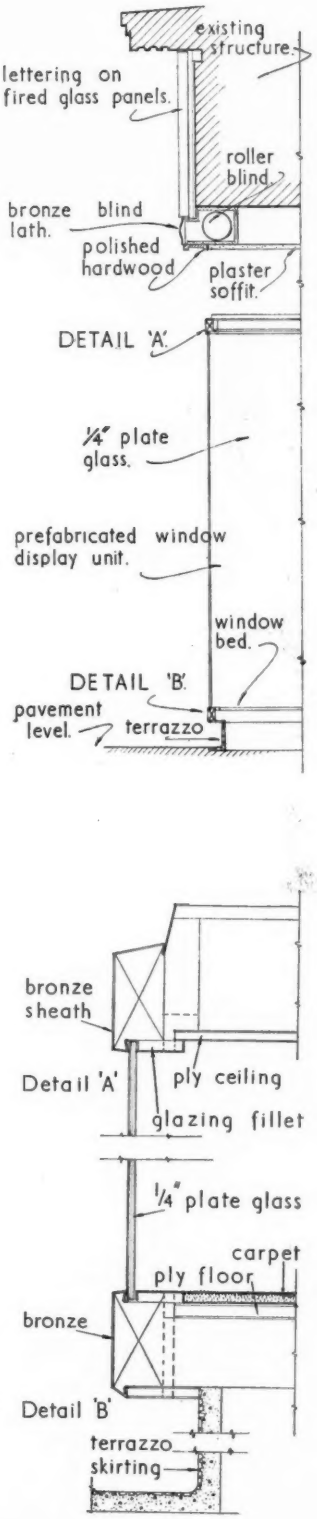
The plan and general scheme of the interior, which follows the usual pattern of the new Dolcis Shops, lends itself readily to prefabrication. Apart from the shop windows, it consists essentially of a series of screen units which line the perimeter of the site and are placed some three feet from the party walls to provide stock room space behind. These screen units are replaced along one side by a range of glazed wardrobes and a single unit comprising a pair of fitting rooms (see Figs. 8, 11, 13). As this group is considerably lower than the ceiling, the difference in height is made up by a riser (see Fig. 9) which in turn supports a bank of fluorescent tubes lighting the counter beneath. The backs of these units are invariably fitted for shelves, while the fronts, which face inwards towards the sales space, are mostly fitted with shadow boxes. The return ends of these screen units are veneered, the gaps between them being closed with curtains. All of the various types of internal unit are fixed directly to the structural floor by means of rawlbolts. Where the position of fixing has to be visible from the sales space, the foot of the unit is provided with mild steel plates which are then sunk in the screed, bolted down and carpeted over.

Main screen units are carried up to within 3 in. of the level of the suspended ceiling: which leaves a space which is sufficient to give adequate ventilation while not breaking visual continuity in the interior. These units were not only constructed but also wired for lighting in the factory—with tail ends calculated to join up with the predetermined junction boxes in the party wall—and were ready fitted with the requisite Lamson tubes.

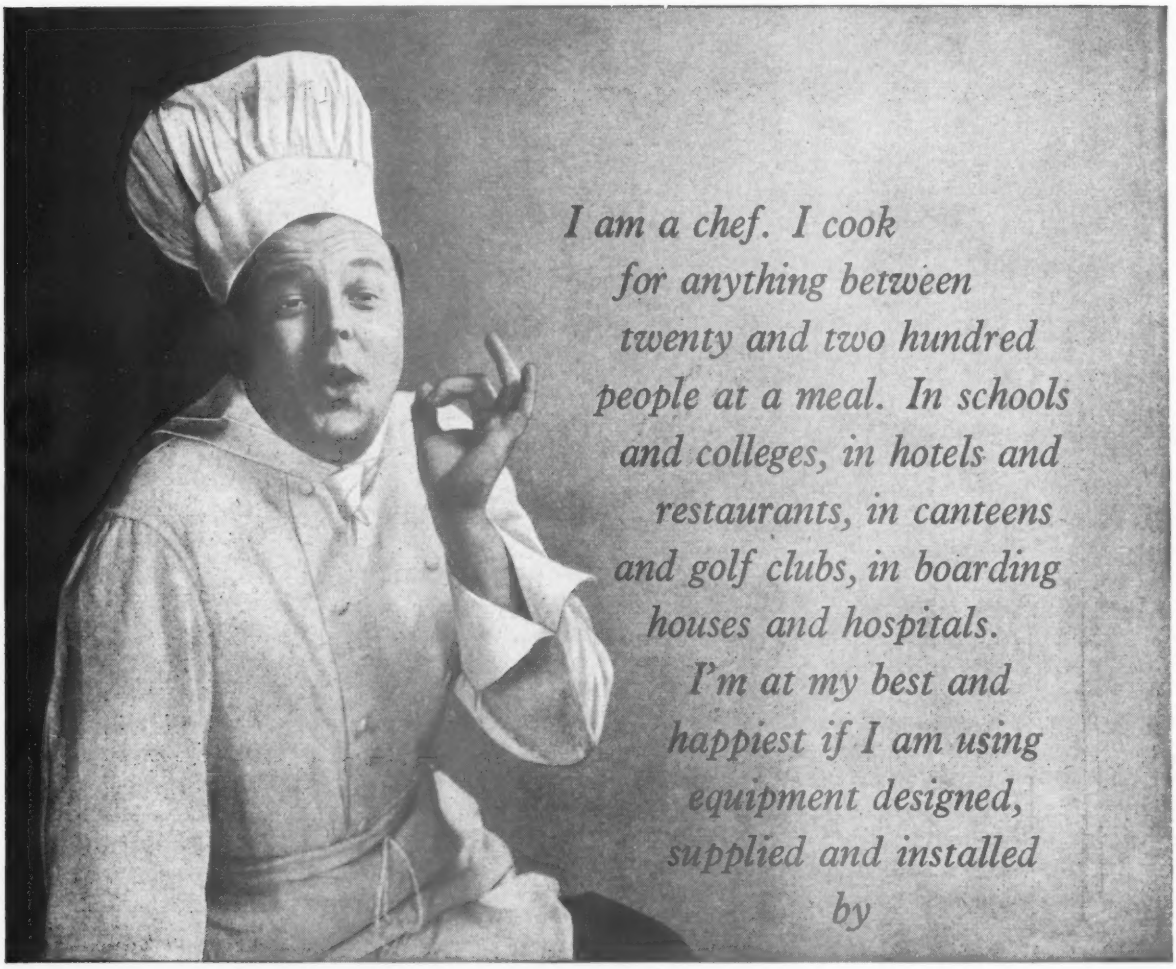
WINDOW CASES

The series of window cases forming the shop front presented a more formidable problem as they had to be fitted round the existing structural columns. In practice they were broken up into six sections, the backs of the two windows which line the main entrance being made up independently. These were likewise wired ready, but the glazing was, of course, put in after they were positioned. An unexpected hold-up in this section of the work was caused by the surprising fact that there was no surface concrete over this section of the site, so that new concrete had to be laid. This naturally caused a hold-up and consequently the 4½-in. dwarf brick walls on which the window units had to stand were still being laid when the units were poised ready in position above them. The units were held up and adjusted for height by means of car jacks.

Another element in the shop front which took rather longer to instal than was anticipated was the special armour plate glass doors with their all-glass surrounds. This is believed to be the first application in a building in this country of the new glass-to-glass bonding, a German technique for which Messrs. James Clark & Eaton hold the



Figs. 6 and 7. Section through fascia and through the window shown in Figs. 4 and 5. (Note: the terrazzo skirting at the foot of the window backs into a 4½ in. brick wall not shown in the drawing).



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Fig. 8. Fitting rooms being carried in. Note wiring.



Fig. 9. The riser to be fixed above the fitting rooms.

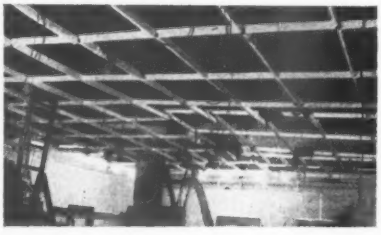


Fig. 10. Aluminium ceiling sections ready for jointing.



Fig. 11. General view looking towards fitting rooms and wardrobes.



Fig. 12. View above fitting rooms and behind riser.

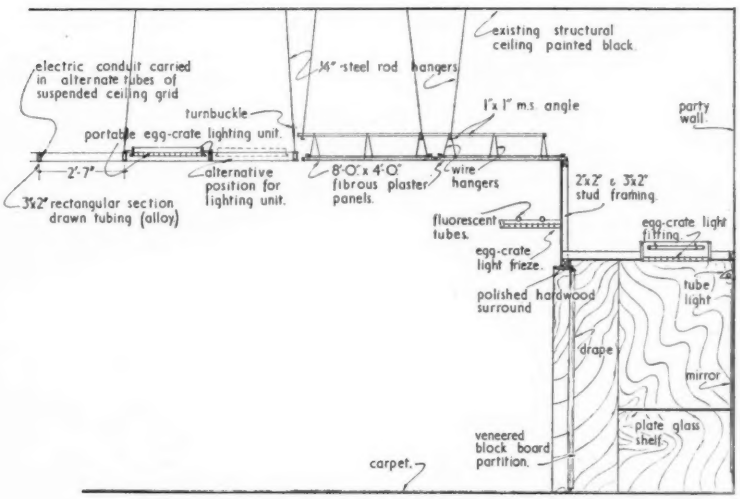


Fig. 13. Section through part of the ceiling and the fitting rooms.

English rights. It is an exacting process which has to be carried out on site by the suppliers' men.

THE CEILING

The last group of major elements were those composing the suspended ceiling. This was subdivided into an aluminium open grid ceiling over the greater part of the sales space and a fibrous plaster ceiling over the remainder. Both ceilings were in the same plane, but, to conform to the fire regulations, the plaster ceiling had to turn upwards along a line corresponding, roughly, to the back of the window space in order to form a fire break with the structural floor above. An interesting point about the open grid ceiling is that the supporting grid contains the electrical wiring and is provided with outlets at regular intervals which enable the position of the lighting points to be changed to suit any corresponding change in the layout below.

The grid ceiling was made in seven sections, the dimensions of each being in part determined by the headroom underneath the Camden Town and Finsbury Park railway bridges—on the route by which the parts were transported.

The ends of the supporting grid of each section terminate in special hook joints designed to allow the grid to be jointed up when in position. Since the ceiling hangers could not be fixed to the same degree of precision as pertained to the ceiling they were provided with right and left trunnions to allow for adjustments in fixing. Like the other prefabricated units the ceiling sections came to the site ready wired. The plaster sections of the ceiling were formed of fibrous plaster panels, of a maximum size of 8 ft. by 4 ft., with attachments for the hangers ready cast on.

THE TIMETABLE

The operation itself was carried out to a very exact timetable. Low loading lorries were used, 15 in all. These were marshalled in Orchard Street, special permission having been previously obtained from the police to allow them to enter Oxford Street between the hours of 7 a.m. and 7 p.m. Work began at 1 p.m. on Saturday. It took 50 minutes to rip out the interior of the old shop. The first lorry was called at 2 p.m. and at 2.10 p.m. the first unit of the shop front (the " Dolores " window) was being fixed. The reason for this decision to fix part of the window space so early in the schedule was to allow Messrs. James Clark & Eaton's men to make an early start on the glass bonding of the adjoining doorway. The remaining two-thirds of the window space was a sufficient gap to allow the internal units to be carried through.

The next major unit to be fixed was the screen at the back of the shop, to be followed in succession by the screens to right and left. These were

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in position by 4 p.m., when work could be begun on the ceiling. As the ceiling elements had to be delivered to the site some time before they were required, they were provisionally strapped up to the ceiling hangers to keep them out of the way. Such plastering as had to be done required, virtually, all the time available. The ceiling over the sales area (which was chiefly the aluminium grid) was completed by 8 a.m. on Sunday, but the plaster ceiling over the shop window area was not ready until early on the Tuesday morning.

Work began on the marble fascia at 5 p.m. on Saturday afternoon and on the neon signs shortly afterwards, the two trades working one behind the other from left to right across the frontage. The whole of this section of the work was complete and the neon signs lit at 8 p.m. on Sunday night.

The last of the main units to arrive on the site were the showcases for the men's shop, which were fixed and ready for glazing at 10 a.m. on Monday morning.

The remainder of the time was occupied chiefly with the laying of the floors and the carpets. The floor of the sales space was ready screeded before work began. All that had to be done was to cut away this screed in limited areas near the doors and screed again to lay black vinol tiles and to lay a terrazzo flooring (with coves to the stall risers) between the external doors and the pavement.

The only element in the design which was not incorporated in the operation was the heating and air-conditioning plant. But since the trunking for this was designed to run round the perimeter of the walls above the storage space it was considered that its subsequent fixing would not greatly disturb the running of the shop.

CONCLUSION

To sum up, it is considered that a *tour de force* of this nature is only economically justifiable in very busy shopping areas. Further, that it is only feasible where the general contractor has his main office in the same city. Perhaps the chief architectural interest lies in the light this performance throws on the high standards of site organization which prevail in this particular branch of contracting.

INFORMATION CENTRE

A digest of current information prepared by independent specialists ; printed so that readers may cut out items for filing and paste them up in classified order.

2.134 planning : general
URBAN SCENERY

The Urban Scene Gordon Logie (Faber & Faber, Ltd., 42s., 1954).

Essentially a picture book for the layman as well as the professional; 156 pages, a brief bibliography and index; 181 illustrations, mainly photographs.

With the subject of Town Design becoming evermore widely recognized in its own right, it is timely for this analysis of the different kinds of urban scenery to be published. Gordon Logie is not concerned in this book with practical necessities of Town Planning but with the " tricks of the trade " in achieving a variety of urban groupings as a background to human activities. He writes about the urban pattern and the types of plan form, devices of urbanism, furnishings, planting, enclosure of space, and so on—rather dull titles for some pertinent essays in picture form, accompanied by written matter that is often illuminating, but sometimes does not rise above the obvious.

In its way, this book belongs to the same *genre* as Frederick Gibberd's *Town Design*, but is on a much less ambitious scale and is more popular in its appeal.

The choice of illustrations is excellent and in quality they are first rate.

2.135 planning: housing
HOUSING AND TOWN PLANNING

Housing and Town Planning. Report on the Proceedings of The Housing and Town Planning Section at the R.S.I. Health Congress at Scarborough. Presidential Address by Sir Wm. Holford. Modern Science as affecting Housing Technique, by Arthur W. Kenyon. Planning for Housing, by S. Lee Vincent. (Pp. 589-608. Royal Sanitary Institute Journal, July, 1954.)

A useful Report ranging from Sir William Holford's analysis of different values to be sought for when planning and designing, to Mr. Kenyon's discussion of his experience of how far modern scientific knowledge is being used, to Mr. Vincent's experience, as a Planning Officer to one of the Northern counties, in the overall planning of housing location.

2.136 planning: history
GENESIS OF PLANNING

The Genesis of Modern British Town Planning. William Ashworth. (Routledge & Kegan Paul, Ltd. 21s., 1954.)

A study from " a historical standpoint of the social and economic factors which have made Town Planning one of the normal functions of Government " ; 259 pages, including short bibliography and index.

This book was originally written as a thesis for the degree of Ph.D. and is valuable as representing a study by someone normally outside the Town Planning world. In range, it begins with the growth of urban population and the process of town growth in Victorian times ; it continues with a description of the origins of improvement of central urban areas, the creation of new model villages and towns and suburban development ; it concludes with a long section on Town Planning legislation.

This book is a useful complement to the more general technical studies available.

23.198 heating and ventilation
FUEL EFFICIENCY SERVICE

The National Industrial Fuel Efficiency Service. W. A. Macfarlane. (The Heating & Ventilating Engineer, July, 1954.)

There are so many Institutes, Associations and other organisations that Architects might well be forgiven for missing the advent of the National Industrial Fuel Efficiency Service but it would be a mistake to do so. In the case of new buildings, reliance for advice will probably be placed in the hands of a competent heating engineer, but there must be many cases where architects are asked to advise on existing buildings where there is a heating installation of some age already existing. Quite often such a system might be improved in efficiency at small expense, and it would obviously be to the advantage of the Client's pocket, and the Architect's prestige, if useful improvements could be suggested, even though the architect has not been called in for this particular purpose. It seems that the staff of the N.I.F.E.S. could be very useful in advising in such cases. The brief paper by Dr. Macfarlane describes the formation of the new organization, which although now an independent body, follows on from the work of the industrial advisory service of the Ministry of Fuel. The new organisation does not deal with domestic buildings. The paper gives a good idea of the aims and objects of the N.I.F.E.S. with a few examples of work it has done since it began operations in May, 1954.



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Buildings Illustrated

*Kidbrooke Comprehensive Secondary School, Corelli Road, London, S.E.*3 for the LCC. (Pages 371-377.) Architects: Slater, Uren & Pike, F/F/A.R.I.B.A.; Partner in charge, Charles Pike, A.R.I.B.A.; Chief Assistant Architect, H. C. Wilson, A.R.I.B.A. Consulting Engineers, Ove Arup & Partners (structural); Edward A. Pearce & Partners (mechanical, heating and electrical); Quantity Surveyors, Selby and Sanders; General Contractors, Gee, Walker & Slater Ltd.; Sub-contractors: foundations, J. Garrett & Sons Ltd.; electrical installation, Holliday Hall & Stinson.; heating and ventilation, Ellis (Kensington) Ltd.; plumbing, Dent & Hellyer Ltd.; w.c. partitions, Venesta Ltd.; cloakroom fittings, Mountford Bros. Ltd.; external planting, turf, etc., Grassphalte Ltd.; plastic and cork flooring, Armstrong Cork Co. Ltd.; shower screens, special door handles, hood over main entrance, The Morris Singer Co. Ltd.; door furniture, Alfred G. Roberts Ltd.; lecture room seating, William Mallinson & Sons Ltd.; linoleum flooring, E. J. Elgood, Ltd.; wood block flooring, Philip Flooring Co. Ltd.; extract fan grilles, Bruce Britow (Engineers) Ltd.; kitlockers, mobile cloak stands, library panel heating, Comyn Ching Ltd.; Venetian blinds, Tidmarsh & Sons; glazing, Faulkner Greene & Co. Ltd.; fibrous plaster, Clark & Fenn Ltd.; sliding folding door mechanism, E. Hill Aldam & Co. Ltd.; sprayed ceilings, C. & T. Pyrok Contractors Ltd.; plenum chamber insulation, Jones & Broadbent Ltd.; sound system, Sound Diffusion Ltd.; stage equipment, Hall & Dixon Ltd.; sound proofing, Haine & Corry Ltd.; lifts, Hoisting Appliance Co.; waterproofing to boiler house, Quickset Water Sealers Ltd.; aluminium roller shutter, Howard Bros. Ltd.; greenhouse, aluminium and copper roofing, Builders' Iron & Zinc Work Ltd.; sanitary fittings, Stitsons Sanitary Fittings Ltd.; metal windows, Henry Hope & Sons Ltd.; felt roofing, Kent Asphalte Co.; hall flooring, Vigers Bros. Ltd.; tiling, Osgood & Co. Ltd.; gymnasia flooring, Horsley Smith & Co. Ltd.; metal roller shutters, G. Brady & Co. Ltd.; asbestos cavity decking roof to gymnasia, Higginson & Wright Ltd.; gymnasia trussing, Scaffolding (Great Britain) Ltd.; automatic Venetian blind in hall, Venetian Vogue Ltd.; sand lime facing bricks, Henry J. Greenham (1929) Ltd.; felt waterproofing, Field & Palmer Ltd.; library fittings, H. H. Martyn & Co. Ltd.; balustrades, Universal Metal Furring & Lathing Co.; blue engineering bricks, Hall & Co. Ltd.; fibre track, G. & S. Allgood; paropa roofing, Frazzi Ltd.; wall surfacing, Cement Glaze Ltd.; clocks, Gent & Co. Ltd.; glass domelights, T. & W. Ide Ltd.; paint, Jenson & Nicholson Ltd.; hollow partition blocks, London Brick Co. Ltd.; wood wool slabs, Supalith Ltd.; emulsion wall finish, Duresco Ltd.; aluminium suspension beams laboratories, G. Johnson Bros.; "Ankorite" box fittings in shell roof, Abbey Building Supplies Co. Ltd.; roof lights, J. A. King & Co. Ltd.; tarmacadam playground and roads, Wainwright Paving & Contracting Co.; armour plate glass to gymnasia, Pilkington Bros. Ltd.; agent for bricks, R. Y. Ames Ltd.; mild steel rods, Whitehead Iron & Steel Co. Ltd., and Guest Keen and Nettlefolds Ltd.; fencing, Fencing, (Shepperton) Ltd.; twisted steel rods, Square Grip Reinforcement Co. Ltd.; fire extinguishers, Minimax Ltd.; flettons bricks, London Brick Co. Ltd., and Eastwoods (Specialists) Ltd.; plastering and grano pavings, C. H. Jenner & Co. Ltd.; Vitreflex rainwater goods, J. Young & Co.; cedarwood shingles, W. H. Colt Ltd.; cycle stands, Alfred A. Odoni & Co. Ltd.; joinery and precast concrete, Gee, Walker & Slater Ltd.; wood wool slabs, Hall & Co. Ltd.; boilers and calorifiers, Hartley & Sugden Ltd.; oil burning equipment, Combustions Ltd.; instruments, K.D.G. Instruments Ltd., Cambridge Instrument Co. Ltd., Electroflo Meters Co. Ltd.; instrument panel, Hartons; controls, Rheostatic Co. Ltd.; circulating pumps, Holden & Brooke Ltd.; radiant heating panels, Comyn Ching Ltd.; warm air circulators, Copperad Ltd.; radiators, Gulf Radiator Co. Ltd.; lagging, Bernard Hastie & Co. Ltd.; blenders, Charles Winn & Co. Ltd.; air filters, Fibreglass Ltd.; heater batteries and fans, Matthews & Yates Ltd.; ductwork, Ozonair Ltd.; cold water storage tank, Braithwaite & Co. (Engineers) Ltd.; lighting fittings (classrooms and external), Hume Atkins & Co. Ltd.; (practical rooms and assembly hall) Courtney Pope (Electrical) Ltd.; (corridors) S.L.R. Electric Ltd.; (stage and dimming), Strand Electric & Engineering Co. Ltd.; power and distribution, (main switchgear), Brush Electrical & Engineering Co. Ltd.; (distribution, general), Bill Switchgear Ltd.; (socket outlets), Walsall Conduits Ltd.; (switches, 5 amp., etc.), J. A. Crabtree & Co. Ltd.; (starters for pumps, fans, etc.), Electrical Apparatus Co. Ltd.; (V.R.I. cables), Armourduct Ltd.; (P.I.Al.C.), Johnson, Phillips & Co. Ltd.; sound system (specialist sub-contractor to Holliday, Hall & Stinson Ltd.), Sound Diffusion Ltd.; (loudspeakers), Reproducers & Amplifiers Ltd., The General Electric Co. Ltd.; fire alarm pushes and clocks, Gent & Co. Ltd.; service lift intercom., Reliance Telephone Co. Ltd.; printing table, pottery benches, clay bins and needlework cuting-out tables, Nathan Agran Ltd.; mirrors, James Clark & Eaton Ltd.; medical inspection couch, Co-operative Wholesale Society Ltd.; upright pianos, W. Danemann & Co. Ltd.; marking and pupils' common room tables, waiter sideboards, serving trolley, teachers' classroom tables, tracing tables, display cases, working tables, plan chests, dual kitchen tables, enamel top table and office chairs, T. Glenister Ltd.; balancing forms, beating boards and jumping stands, Gymnastic Equipment (Engineering) Co. Ltd.; beating boards, H. Hunt & Son Ltd.; medical cupboards, Lord Roberts Memorial Workshops; coir gym mats, C. W. Maggs (Melksham) Ltd.; dual practical workroom tables and housecraft kneehole tables, Mann Egerton & Co. Ltd.; tubular steel display stands and boards, Metalliform Ltd.; tubular steel chairs for hall, etc., and tubular steel trolleys, Neeta Ltd.; chalkboard easels, Norbury Joinery & Cabinet Works Ltd.; climbing ropes, single span double beams, vaulting horses, vaulting boxes and quilted gym mattresses, Olympic Gymnasium Co. Ltd.; library tables, librarians' desks, medium classroom cupboards, teachers' tables, low study room cupboards, needlework tables with wooden tops and hinged chalkboards, Papworth Industries; glass fronted bookcase, Procanta Manufacturing Co. Ltd.; modelling stands, Viner & Marsh Ltd.; science and art room stools, geography and history pupils' tables, folding skirt boards, housecraft stools, glass top tables, needlework tables with plastic tops, bookcases (Evening Institute), dual catering tables, lino top tables and office tables, Wrinch & Sons Ltd.; drugget Adam and Lane & Neeve Ltd.; head teacher's armchair, William Birch & Son Ltd.; sewing machines, British Sewing Machines Ltd.; ironing boards (trade type), Campbell Engineering Co. Ltd.; pottery kiln, R. M. Catterson Smith Ltd.; projector stands and electric gramophones, Clarke & Smith Mfg. Co. Ltd.; typewriting chairs, Co-operative Wholesale Society Ltd.; concert grand piano, W. Danemann & Co. Ltd.; tubular steel hat and coat stands, Dare-Inglis Products Ltd.; gramophones, Decca Record Co. Ltd.; rugs, Durantes Ltd.; card index cabinets, Durrant & Son Ltd.; pupils' tables and chairs (Lamstak), Educational Supply Association Ltd.; disc recorder, E.M.I. Sales & Service Ltd.; typists' tables, S. Epstein Ltd.; low staff tables, W. G. Evans & Sons Ltd.; bedspreads, Everwear Candlewick Ltd.; micro-projector Flatters & Garnett Ltd.; chairs for library, staff-room, medical suite and administration, etc., Furniture Industries Ltd.; cine projectors, G. B. Equipments Ltd.; double pedestal desks and chairs, Gordon Russell Ltd.; bathroom cabinets, A. Goslett & Co. Ltd.; stacking tables in dining rooms, G. M. Hammer & Co. Ltd.; furniture for model flats, Heals (Contracts) Ltd.; food mixer and potato peeler, Hobart Manufacturing Co. Ltd.; staff fireside chairs, H. K. Furniture Ltd.; typewriters, Imperial Typewriting Co. Ltd.; dress stands, Kennett & Lindsell Ltd.; dropwell typewriting tables and stacking rest beds, Kingfisher Ltd.; divan covers, Landor Furnishings; low voltage units, Legg (Industries) Ltd.; rugs, Liberty & Co. Ltd.; steel wall shelving for history and geography rooms and periodical racks, Libraco Ltd.; two-drawer steel filing cabinets, Milners Safe Co. Ltd.; divan beds, Horatio Myer & Co. Ltd.; rugs, Masons (Canterbury) Ltd.; tubular steel stacking stools, New Equipment Ltd.; staff wardrobe lockers (steel), Norwood Steel Equipment (London) Ltd.; "Cave" gymnastic apparatus, Olympic Gymnasium Co. Ltd.; draw-lead dining room tables, Papworth Industries; micro-projectors, G. Pearson & Co. Ltd.; hanging geography globes, George Philip & Son Ltd.; potters' wheels, Potters Equipment Ltd.; easy chairs in model flats, A. Reason & Sons Ltd.; typewriters, Remington Typewriters; duplicator, Roneo Ltd.; epidiascope, Ross Ensign Ltd.; art room easels/tables, Russell Bros. (Paddington) Ltd.; four-drawer steel filing cabinets, Sankey Sheldon Ltd.; filmstrip projectors, Savage & Parsons Ltd.; dress stands, Siegel & Stockman Ltd.; sewing machines, Singer Sewing Machine Co. Ltd.; typewriting records, Sir Isaac Pitman & Sons Ltd.; furniture for model flat, Frederick Tibbenham Ltd.; venetian sun blind and blackout blinds, Tidmarsh & Son Ltd.; modelling stands (table model), Alec Tiranti Ltd.; sewing machines, Willcox & Gibbs Sewing Machine Co. Ltd.; making up and hanging curtains and blackout curtains, S. G. Williams & Co. Ltd.; "Unique" roller chalkboards, Wilson & Garden Ltd.

Flats at Waltham House, Boundary Road, London, N.W.8, for the St. Marylebone Borough Council. (Pages 378-382.) Architects: Edward Armstrong and Frederick MacManus, F/F.R.I.B.A. Assistant Architects, G. E. P. Day, A.R.I.B.A., F. J. P. Toni, A.R.I.B.A., and R. D. Lyons, A.R.I.B.A. Consulting Engineers: Bylander and Waddell. Quantity Surveyors: William C. Inman & Partners. General contractors: J. M. Hill & Sons Ltd. Subcontractors: bricks, R. Y. Ames Ltd.; doors, John Sadd & Sons, Ltd.; sanitary fittings, B. Finch & Co. Ltd.; ironmongery, Nettlefold & Moser Ltd.: pre-cast concrete, Girlings Ferro-Concrete Co. Ltd.; electrical installation, The Phoenix Electrical (London) Ltd.; fireplaces, surrounds and fire, Bratt Colbran, Ltd.; wood windows, Rippers Ltd.; metalwork, Farmer & Sons, Ltd., and Light Steelwork (1925) Ltd.; metal door frames, The Crittall Manufacturing Co. Ltd.; gas installation, North Thames Gas Board; kitchen fittings, Built-in Fixtures, Ltd.; external coal hoppers, George Baker (Builders Merchants); refuse hopper, Broads Manufacturing Co. Ltd.; asphalte roofing, The Rock Asphalte Co. Ltd.; play apparatus, Paul & Marjorie Abbatt, Ltd.; plastic tile flooring, Armstrong Cork Co. Ltd.; tiling, internal and external, A. S. Tatham, Ltd.; landscape gardening work, F. C. Courten & Co. Ltd.

Announcements

Philip R. Middleton, DIP.ARCH., A.R.I.B.A., has resigned his appointment as architect to the Middlesbrough Education Committee and has commenced in private practice at Court Chambers, Albert Road, Middlesbrough. (Tel.: Middlesbrough 56676.)

R. C. Botsford, B.SC. (ENG.) LON., has been appointed Technical Assistant to the Fibre Building Board Development Organisation Ltd.

Rentokil Ltd., have appointed Messrs. Boileau & Boyd Ltd., 91-93, Bride Street, Dublin, C.7, as their sole Agents in Eire, to whom all enquiries should be addressed.

Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers names please.)

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Please ask manufacturers to send further particulars to :—

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PROFESSION or TRADE

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23.9.54

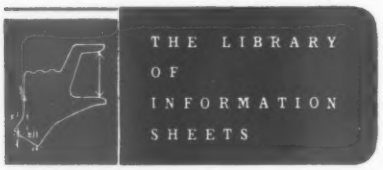
Alan C. Turner, DIP.ARCH., A.R.I.B.A., has opened an office at 20, Stone Street, Gravesend, Kent, where he will be glad to receive trade catalogues and literature. No telephone has yet been installed.

An exhibition of fireplaces designed by architects will be on view from September 27 to October 2 at the Metal Agencies Co. Ltd.'s showrooms, Colston Street, Bristol. The exhibition will be open from 8.30 a.m. to 8 p.m., 8.30 a.m. to 5.30 p.m. Saturdays and closed every day from 1 p.m. to 2 p.m.

Turner and Holman (W. Ray Turner, B.SC. (EST.MAN.), A.I.Q.S., A.I.ARB., and Dennis B. Holman, A.I.Q.S.I, practising as quantity surveyors, valuers and arbitrators, have moved to 7, Blake Street, York. The telephone number is still York 54574.

Dr. T. F. O'Sullivan, PH.D. (ENG. LOND.), MI.C.E., consulting engineer, has now established a London office, the temporary address of which is 249, Waldegrave Road, Twickenham, Middlesex. (Tel.: Popesgrove 2692.)

Messrs. Sir W. A. Rose & Co. Ltd., paint manufacturers, have appointed E. A. Pickering as their representative for the counties of Hampshire and Dorset, the Isle of Wight and parts of Wiltshire.



REFERENCE BACK

13.H1

Readers are asked to note the following amendments and to correct their copy of the Information Sheet in question:

Face of Sheet—under heading "Materials," first sentence should read ". . . slaked lime moulded under pressure and hardened by exposure to high-pressure steam."

Under heading "British Standard," after sub-heading "Crushing strength": "The minimum crushing strengths are": after sub-heading "Transverse strength": "The minimum transverse strengths are—" : after sub-heading "Drying shrinkage": "the maximum drying shrinkage (as average for 3 specimens) is" should be substituted for existing wording. Under heading "Characteristics," sub-heading "Fire-resistance," first sentence should read "In tests and in actual experience the fire-resisting qualities of sandlime bricks have been found to be very good."

The address of the Sand Lime Brick Manufacturers' Association is now 47, Victoria Street, Westminster, London, S.W.1.

CANCELLATION

Sheet 20.C11, published 17.4.52, has been cancelled and should be removed from collections.



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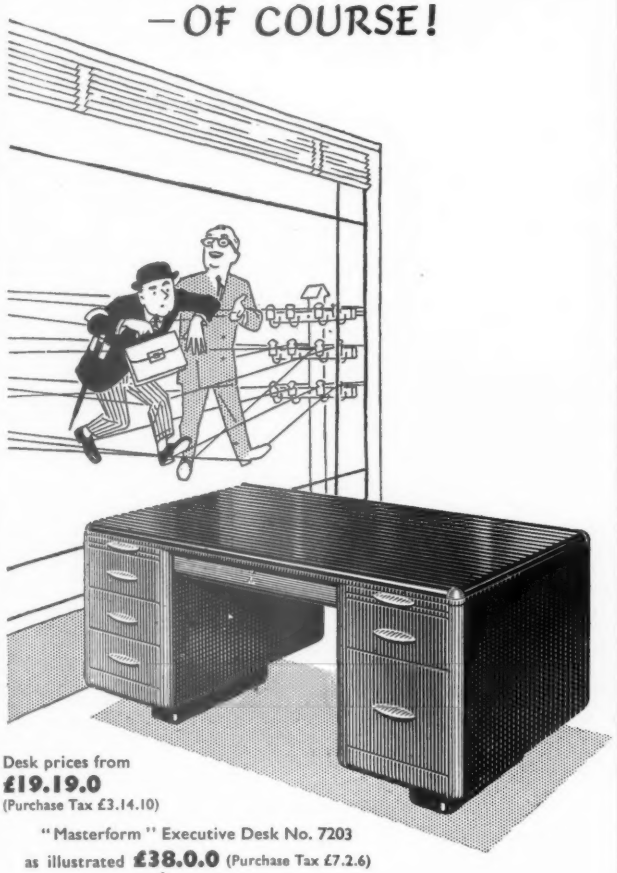
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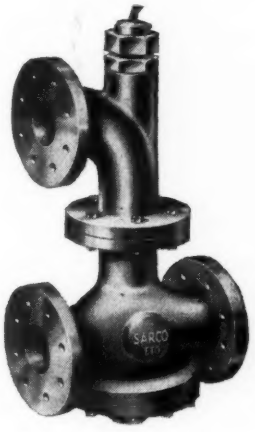
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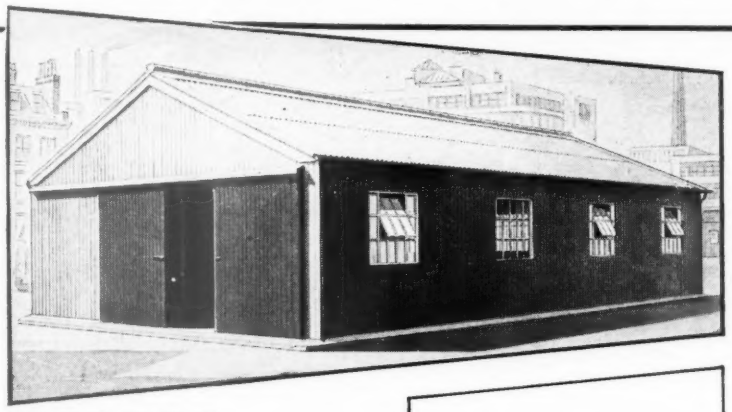


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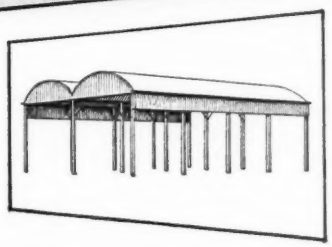
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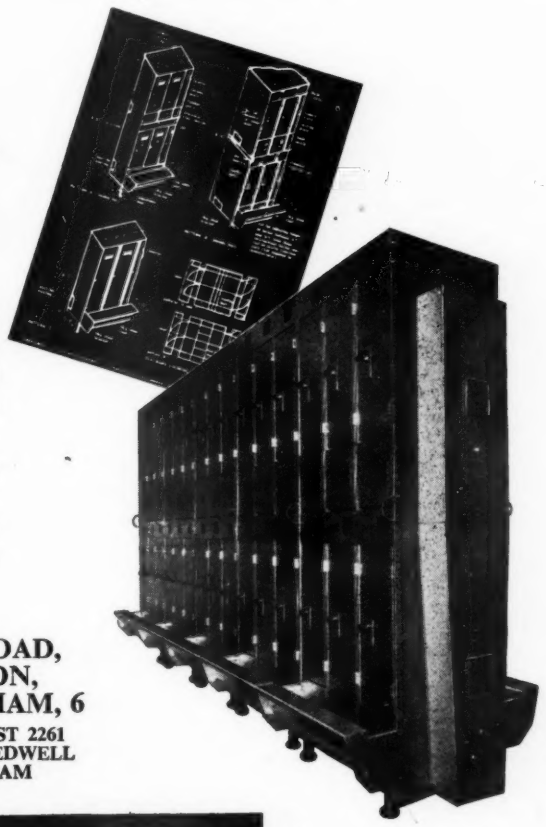
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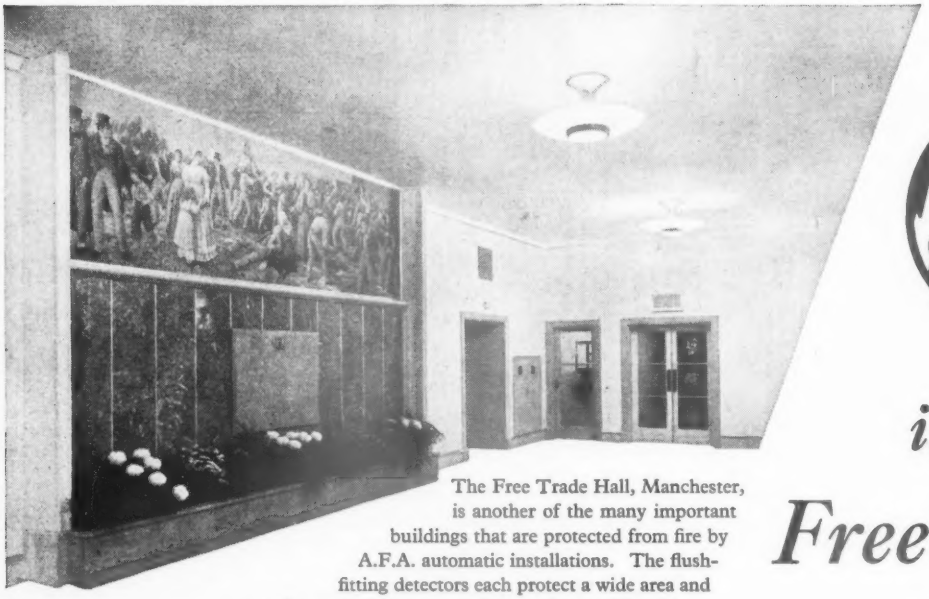
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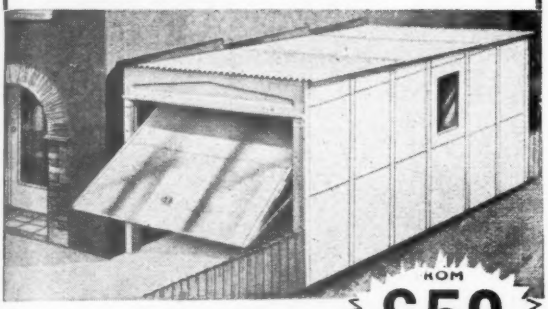
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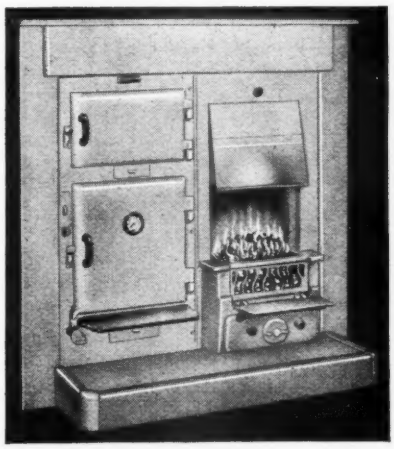
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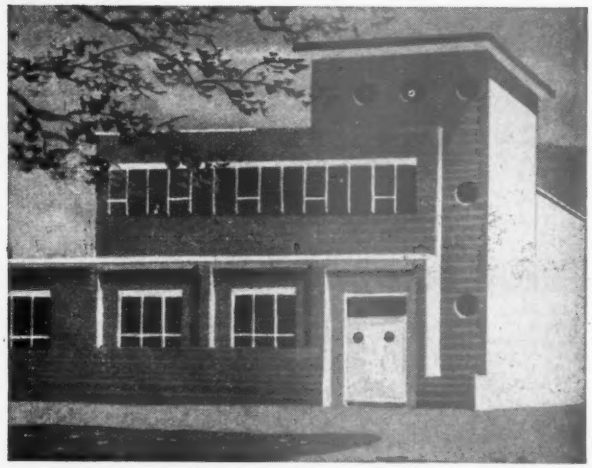
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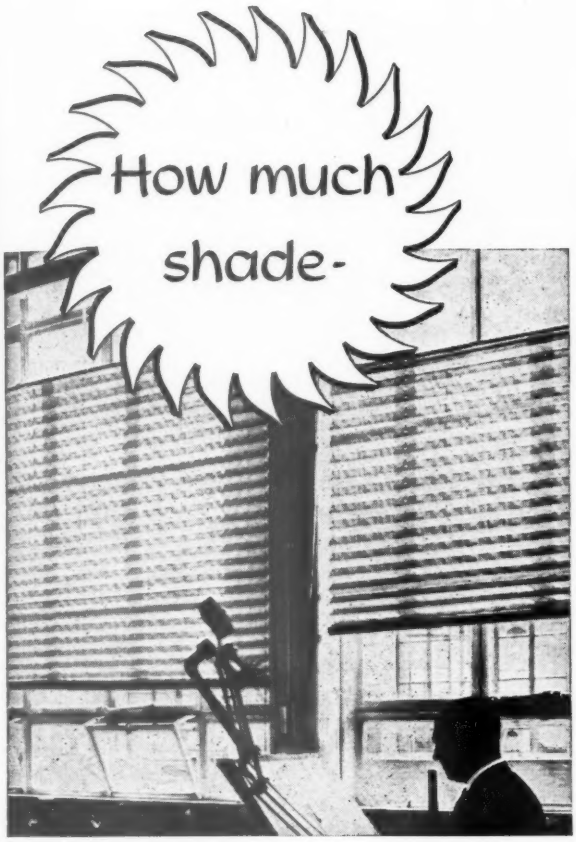
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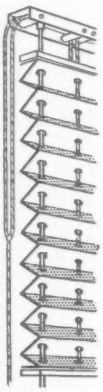
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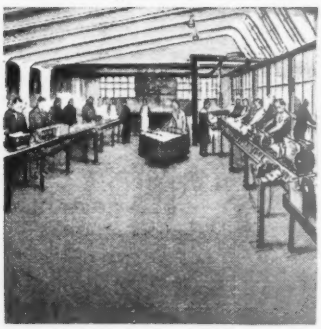
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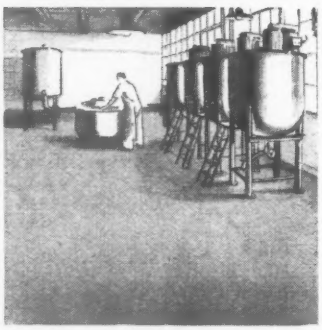
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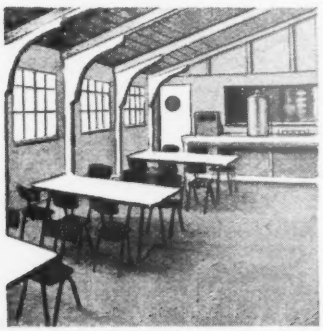
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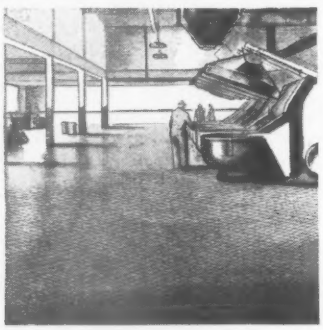
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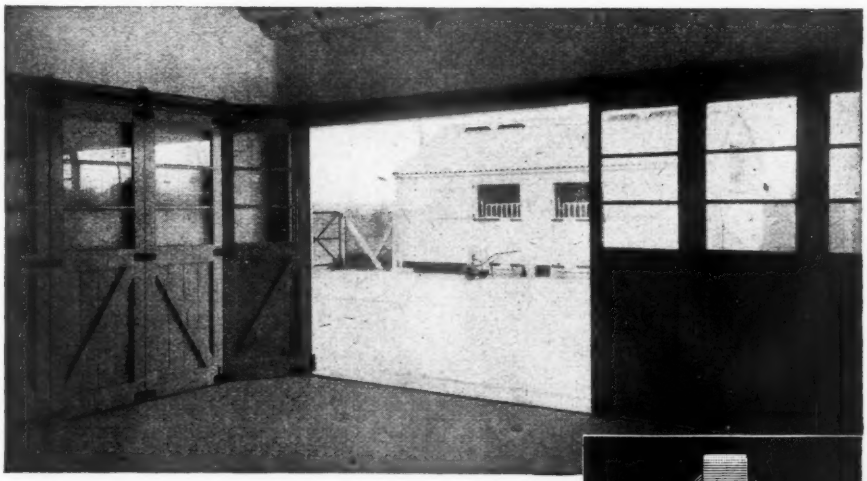
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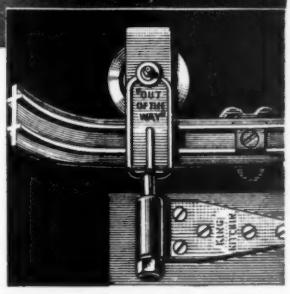
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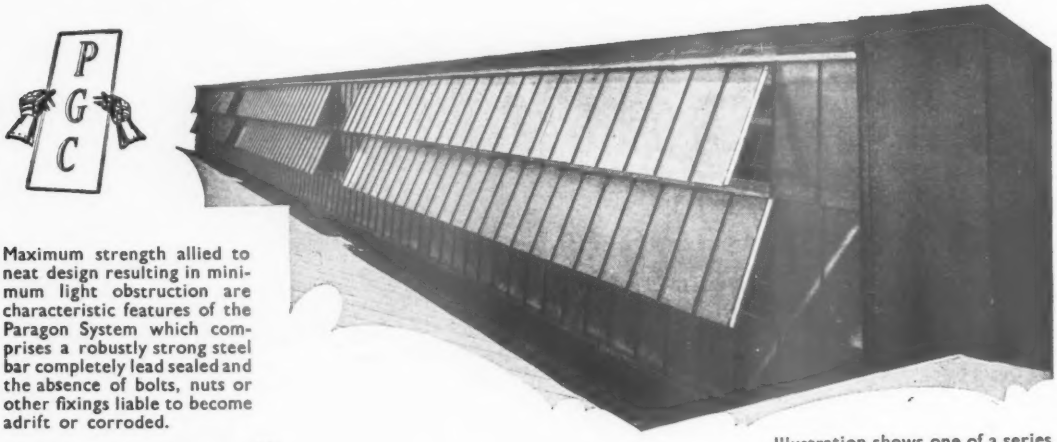
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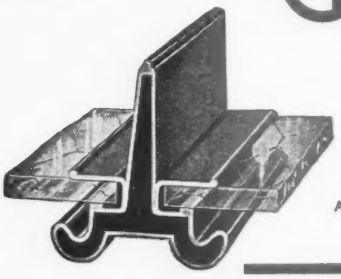


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Town Clerk.

Town Hall, Newcastle upon Tyne, 1.
13th September, 1954. 4048

COUNTY BOROUGH OF IPSWICH.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. The salary will be in accordance with Grade A.P.T. VI of the National Scales of Salaries, i.e., £695 per annum, rising by annual increments to a maximum of £760 per annum. Candidates must have passed the final examination of the R.I.B.A. or hold a similar qualification. Applicants should have had experience in general architectural work with a Local Authority and possess sound knowledge of design and construction.

There is no form of application, but candidates must state age, experience and any other relevant details and submit the names and addresses of three referees. Applications must be received by the Borough Engineer & Surveyor, 19, Tower Street, Ipswich, not later than Monday, 4th October, 1954.

Canvassing will disqualify.

If the applicant is, to his knowledge, related to any member or senior officer of the Council he must disclose the fact in writing when submitting his application.

J. C. NELSON,
Town Clerk.

Town Hall, Ipswich.
23rd September, 1954. 4085

Vacancies exist for DRAUGHTSMEN/TRACERS (male or female) in the Engineers' and Architects' Departments, in the salary scale £330-£530 p.a., according to age and experience. Superannuation schemes, medical examination, housing available in due course. Apply by 30th September, giving age, education, experience, and names of two referees, to General Manager (D), Bracknell Development Corporation, Farley Hall, Bracknell, Berks. 4050

BOROUGH OF GILLINGHAM.
BOROUGH ENGINEER'S DEPARTMENT.
ARCHITECTURAL ASSISTANT.
GRADE A.P.T., IV, £580 PER ANNUM.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have good general experience of architectural design, preparation of working drawings, details and specifications and supervision of construction.

The Council are prepared to allocate housing accommodation if required by the successful applicant.

Forms of application may be obtained from the Borough Engineer, Municipal Buildings, Gillingham, Kent. Applications, appropriately endorsed, must be received by the undersigned, accompanied by copies of not more than three recent testimonials by, not later than first post on Monday, 18th October, 1954.

Canvassing, directly or indirectly, will disqualify.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.
15th September, 1954. 4086

BRECONSHIRE COUNTY COUNCIL.
PLANNING DEPARTMENT.

Applications are invited for the permanent appointment of CHIEF ASSISTANT in the County Planning Department. Candidates should have passed or obtained exemption from the Final Examination of the Town Planning Institute. A qualification in Architecture will be an advantage. The salary payable will be in accordance with A.P. and T., Grade VII, of the National Joint Council's scale, *viz.*, £735 per annum, rising by annual increments of £25 to £810 per annum. The appointment will be subject to (i) the National Scheme of Conditions of Service, (ii) the provisions of the Local Government Superannuation Acts, (iii) the passing satisfactorily of a medical examination, (iv) one month's written notice on either side. Applications, stating age, qualifications and experience, with names and addresses of three referees, must reach the undersigned not later than the 30th September, 1954. Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

C. M. S. WELLS,
Clerk of the County Council.

County Hall, Brecon. 4033

URBAN DISTRICT COUNCIL OF CORBY.
TRACER/DRAUGHTSMAN (MALE OR FEMALE).

Applications are invited for this appointment on the established architectural staff of the Council's Engineer and Surveyor.

The salary will be in accordance with Grade III of the Miscellaneous Division of the National Scale of Salaries (£395-£460), commencing at £395 per annum.

Applicants must be neat and expeditious draughtsmen, well experienced in the tracing of Architectural drawings, and must be able, also, to undertake lettering thereon of a high standard.

Housing accommodation will be made available to the selected candidate (if married).

The provisions of the Local Government Superannuation Acts will apply.

Forms of application can be obtained from the undersigned, to whom they should be returned, completed, by not later than Thursday, the 14th October, 1954.

G. B. BLACKALL,
Clerk of the Council.

Council Offices, Corby, Northants.
13th September, 1954. 4041

COUNTY BOROUGH OF ROCHDALE.

Applications are invited for the appointment of HEATING AND VENTILATING ASSISTANT, in the Department of the Borough Surveyor, at a salary of £620, rising to £670 per annum (Grade A.P.T., V). Applicants must be Members or Associate Members of the Institution of Heating and Ventilating Engineers, and have had considerable experience in the design and installation of heating and ventilating systems of all types. Experience in electric lighting and power installations would be an advantage.

The appointment will be subject to the provision of the Local Government Superannuation Act and to the selected candidate passing a medical examination. Canvassing is prohibited and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications, and full particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered to the Borough Surveyor, Town Hall, Rochdale, by 9 a.m. on Friday, 15th October, 1954. Envelopes must be endorsed "Heating Assistant."

K. B. MOORE,
Town Clerk.

4063

CITY OF WAKEFIELD.
APPOINTMENT OF ARCHITECTURAL ASSISTANT, GRADE A.P.T., V (£620-£670).

Applications are invited for the above permanent appointment from persons who are A.R.I.B.A. and have good experience of housing, including flats and general Municipal work.

Applications, giving full particulars and names of two referees, to be sent to me by the 1st October, 1954.

W. S. DES FORGES,
Town Clerk.

Town Hall, Wakefield. 4037

FLINTSHIRE COUNTY COUNCIL.
APPOINTMENT OF COUNTY PLANNING OFFICER.

Applications are invited for the appointment of County Planning Officer, at a salary of £1,350 per annum, rising by annual increments of £50 to £1,600 per annum, plus a car allowance. Applicants, who should possess appropriate professional qualifications, should have wide planning and administrative experience, preferably with a County Planning Authority. Form of application, together with further particulars, may be had from the undersigned, to whom applications are to be returned not later than 9th October, 1954.

W. HUGH JONES,
Clerk of the County Council.
County Buildings, Mold. 4042

HAMPSHIRE.

Applications are invited for the appointment of a TECHNICAL ASSISTANT, in The County Planning Department, on Grade III of the National Scales (£550-£595), to work at Basingstoke. Candidates should have passed the Intermediate Examination of the Town Planning Institute or of a related professional body, and have had experience in the Planning Department of a Local Planning Authority. The appointment is pensionable, and will be subject to a satisfactory medical report.

In approved cases the County Council are prepared to assist newly appointed staff to meet removal expenses.

Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names of two referees, should reach the County Planning Office, Litton Lodge, Clifton Road, Winchester, by the 9th October. 4049

CITY OF SHEFFIELD.
CITY ENGINEER AND SURVEYOR'S DEPARTMENT.
SENIOR PLANNING ASSISTANT, GRADE VIII.

Applications are invited from persons with Town Planning experience, and who are suitably qualified, for position of Senior Planning Assistant, Grade VIII (£785-£860), on the staff of the City Engineer and Surveyor and Planning Officer (H. Foster, M.I.C.E., M.I.Mun.E.).

Qualifications: A.M.T.P.I. or A.M.I.C.E., or A.R.I.B.A., or A.R.I.C.S., or Engineering Degree, or A.M.I.Mun.E.

Superannuable posts, N.J.C. conditions of service, medical examination.

Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries), and quoting the names of two referees, by the 11th October, 1954, to:—

JOHN HEYS,
Town Clerk.
Town Hall, Sheffield, 1. 4076

BOROUGH OF CHELMSFORD.

(*a*) CHIEF ASSISTANT ARCHITECT, Grade A.P.T., VI (£695-£760 per annum).

(*b*) JUNIOR ENGINEERING ASSISTANT, Grade A.P.T., I (£490-£535 per annum).

Applications are invited for the above appointments in the Borough Engineer's Department. Applicants for appointment (*a*) must be suitably qualified, experienced in design and construction of houses, flats and miscellaneous Municipal works, and have had administrative experience. The appointments will be subject to the provisions of the Local Government Superannuation Acts, and will be terminable by one month's notice on either side. The selected applicants will be required to pass a medical examination.

Living accommodation, if required, will be available for the successful applicant for appointment (*a*).

Applications, stating age, qualifications, experience, present and previous appointments (with salaries), together with the names and addresses of two referees, are to be delivered to Vincent J. Willis, M.I.Mun.E., F.R.San.I., Borough Engineer, Surveyor and Architect, Municipal Offices, Chelmsford, not later than Tuesday, 12th October, 1954. Applicants must state whether to their knowledge they are related to any member of or holder of any office under the Council.

B. A. FRANCIS,
Town Clerk.
Municipal Offices, Chelmsford.
15th September, 1954. 4066

THE NUFFIELD FOUNDATION.
RESEARCH FELLOWSHIP IN ARCHITECTURE.

THE NUFFIELD FOUNDATION invites applications for a Fellowship enabling its holder to work in the Foundation's Division for Architectural Studies on a research project coming within those parts of the Division's programme of studies concerned with scientific research laboratories and farm buildings. The value of the Fellowship, which is tenable for two years, will be between £600 and £750 per annum.

The Fellowship is open to men and women who are citizens of the United Kingdom, who have completed a course qualifying them for registration as Architects and have gained some practical experience after qualifying.

Full details and application forms are obtainable from the Director of the Division for Architectural Studies, The Nuffield Foundation, Nuffield Lodge, Regent's Park, London, N.W.1. Last date for the receipt of applications is 18th October, 1954.

L. FARRER-BROWN,
Director of the Nuffield Foundation. 4060

BRITISH ELECTRICITY AUTHORITY.
MIDLANDS DIVISION.

TWO SENIOR DRAUGHTSMEN (ARCHITECTURAL) are required in the Generation (Construction) Department at Wolverhampton. N.J.B. service conditions, superannuable appointments, salaries within Schedule "D" of the Agreement, Grade 5 (£567-£671 per annum).

Applicants should preferably have had experience in the layout and design of main and auxiliary buildings associated with generating stations. Sound technical education and training are required. Appropriate technical qualifications an advantage.

Good conditions of employment and holidays; opportunities for broadening experience in all branches of civil engineering; canteen facilities available. Previous applicants for this position are being re-considered.

Apply, quoting Vacancy No. 768MD on form AE6 available from the Establishments Officer, 53, Wake Green Road, Moseley, Birmingham, 13, by 9th October, 1954. 4095

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT, Grade VII (£735-£810, subject to review). Previous Local Government experience not essential.

Applications, with the names of two referees, to County Architect, County Hall, Hertford, Herts., not later than first post, 2nd October, 1954. 4052

COUNTY BOROUGH OF ROCHDALE.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Department of the Borough Surveyor.

The salary for the appointment is Grade A.P.T., V (£620-£670) per annum. Applicants must be Registered Architects, and have experience in the design of dwellings and supervision of contracts. Persons with partial qualifications will be paid a salary commensurate with qualifications.

The appointment will be subject to the provisions of the Local Government Superannuation Act and to the selected candidate passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications and full particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered to the Borough Surveyor, Town Hall, Rochdale, by 9 a.m. on Friday, the 15th October, 1954. Envelopes must be endorsed "Architectural Assistant."

K. B. MOORE,
Town Clerk. 4081

COUNTY BOROUGH OF WALSALL.
PUBLIC WORKS DEPT.

Applications are invited for the following appointments:—

(*a*) ASSISTANT ARCHITECT, Grade A.P.T., V (£620-£670).

(*b*) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T., I (£490-£535).

Applicants for appointment (*a*) should be Registered Architects, and preference will be given to those holding a recognised Architectural qualification.

Applicants for appointment (*b*) should have reached R.I.B.A. Intermediate standard.

The appointments will be subject to the terms of the Local Government Superannuation Acts, and the persons appointed will be required to pass a medical examination.

Applications, enclosing copies of three recent testimonials, and stating age, present position, salary and technical qualifications, together with details of experience, should be submitted by the 8th October, 1954, to the undersigned.

M. E. HARBERSHON,
Borough Engineer and Surveyor.
Council House, Walsall.
16th September, 1954. 4077

BRITISH ELECTRICITY AUTHORITY.
EAST MIDLANDS DIVISION.

SENIOR DRAUGHTSMAN (CIVIL). Construction Department. (Vacancy No. 112/54/AJ.)

Candidates should have experience in the preparation of detail drawings and in the design of one or more of the following subjects:—

Reinforced concrete structures.
Piled and slab foundations for heavy components.
Cable subways, Bridges and Culverts.

The salary will be in accordance with Grade 4 (£671-£780 per annum) or Grade 5 (£567-£671 per annum) of Schedule D of the National Joint Board Agreement.

Closing date for receipt of applications: 5th October 1954.

The above position will be pensionable within the terms and provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form AE6/ACT, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box 25, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy Number.

L. F. JEFFREY,
Divisional Controller. 4088

HARLOW DEVELOPMENT CORPORATION.

Applications are invited for the following posts:—

JUNIOR ASSISTANT ARCHITECTS (TWO).
One post salary £500×£25—£550, other post salary £550×£25—£650. Minimum qualification, Inter. R.I.B.A. or equivalent.

ASSISTANT ARCHITECTS (THREE).
Two posts salary £650×£25—£750 (one temporary), other post salary £750×£25—£850. Minimum qualification, A.R.I.B.A. or equivalent.

Experience in housing, industrial, commercial, or town centre building essential.

Housing, Superannuation.

Detailed applications, with names of two referees, to reach the General Manager, Harlow Development Corporation, "Terlings," Gilston, Harlow, Essex, within 10 days of appearance of this advert. 4062

SPALDING RURAL DISTRICT COUNCIL.
APPOINTMENT OF TECHNICAL ASSISTANT—ARCHITECT'S DEPARTMENT.

Applications are invited from persons having a sound and practical knowledge of architectural and quantity surveying work for the above appointment. Salary to be within A.P.T., Division IV, of the National Scale (£580-£625 p.a.).

Appointment subject to the Local Government Superannuation Act, 1937, and to a satisfactory medical examination. Canvassing will disqualify.

The Council are prepared to let a house in the Rural District to the successful applicant.

Applications, giving the names of three persons to whom reference may be made, to reach the Clerk to the Council, Rural Council Offices, Spalding, not later than 7th October, 1954. 4096

Architectural Appointments Vacant

4 lines or under 7s. 6d., each additional line 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

REQUIRED for Architects' office, Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 3336.

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

ASSISTANT required immediately by a firm of Architects in Doncaster. State age, experience, and salary required. Box 4026.

SENIOR ASSISTANT required with knowledge of Office Building in London. Salary by arrangement. C. H. Elsom, A.R.I.B.A., 44, Catherine Place, S.W.1. Victoria 4304. 3994

JUNIOR and SENIOR ARCHITECTURAL ASSISTANTS and DRAUGHTSMEN for large and varied practice in Home Counties. Salary required and details of experience to Box 3512.

ARCHITECT wanted, young, qualified, to supervise erection of buildings, Middle East. Salary £1,200, all found, including fares, accommodation and food, with annual holiday in U.K. Experience of Middle East preferable, but not essential. Apply Box 3956.

AN ARCHITECTURAL DRAUGHTSMAN is required by British Cellophane, Ltd., Bridgwater, Somerset, for work in connection with modern industrial buildings and offices, maintenance and modifications, and for factory planning and layout. Write to the Personnel Officer, stating age, experience, and salary required, and quote Ref. No. E11.AJ. 3967

REQUIRED, at Company's Head Office, Guildford, ARCHITECTURAL ASSISTANT, A.R.I.B.A. Varied work, mainly factory. Five-day week. Salary by arrangement. Box 3960.

RONALD WARD & PARTNERS urgently require ASSISTANTS of various grades. Apply Sloane 8291 and Tate Gallery 1925, or write, 17, Lowndes Street, S.W.1. 3696

ARCHITECTURAL ASSISTANT, Intermediate standard R.I.B.A., with some previous experience in an Architect's office, required in the Lake District. Salary according to experience. Write, stating age and experience, to Jennings & Gill, L./A.R.I.B.A., Market Place, Ambleside. 3962

ARCHITECTURAL ASSISTANTS required for Bristol Office with large and varied practice. Applicants should have recently qualified or have passed R.I.B.A. Intermediate and be studying for Final. Apply in writing giving age, experience and salary required to W. H. Watkins, Gray, FF.R.I.B.A. and Partners, 1, Clare Street, Bristol 1. 3963

ARCHITECTURAL ASSISTANTS required (one senior and one junior). Must be members of Royal Institute. Experience in schools desirable. Reply stating age, experience and salary required to: W. & J. B. Ellis, F/A.R.I.B.A., Barclays Bank Buildings, St. Helens. 3949

CO-OPERATIVE WHOLESALE SOCIETY LTD. ARCHITECT'S DEPARTMENT, LONDON.
APPLICATIONS are invited for the following :—
(A) ASSISTANT ARCHITECTS of Intermediate and Final R.I.B.A. standard for work on varied and interesting projects.
(B) STRUCTURAL ENGINEER'S ASSISTANT, aged 20/25. Should have experience in structural steel design to B.S.S. 449 1948 and C.P. 113.
The appointments are permanent and pensionable and offer prospects of up-grading.
Applications stating age, experience, qualifications and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd., 99, Leman Street, London, E.1. 3979

ARCHITECTURAL ASSISTANT commercial, industrial and domestic practice. Able to deal with working drawings, detailing, etc. Salary £350/£450 according to experience. Apply with full particulars to Newman, Levinson & Partners, 54, Baker Street, London, W.1. Tel. WELbeck 0926/7. 3995

SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS urgently required for interesting housing project. Applicants should have experience of modern building construction and design and preferable with experience of local government housing schemes. Permanent positions offered to suitable applicants with attractive salaries commensurate with age and experience. Apply in writing to Labour Manager. Hills (West Bromwich) Limited Albion Road, West Bromwich, giving age, qualifications and full details of experience. 3998

ARCHITECTURAL ASSISTANT required. To work under the supervision of Principal. Intermediate or Final standard. Domestic, Church, Factory Work, etc. Salary according to ability. P. W. Dawney & Carpenter, 131, Victoria Street, S.W.1 4093

ENGINEER DRAUGHTSMAN required, to take charge of Drawing Office and Production of Light Steel Prefabricated Structures for the Building Industry. Must be fully experienced in modern production methods. Apply Metal Sections, Ltd., Broadwell Works, Oldbury. 4091

ARCHITECTURAL ASSISTANTS (Senior and Junior) required in office on varied and interesting work. Full particulars and salary required to T. H. Thorpe & Partners, 41, Friar Gate, Derby. 4089

DEVELOPMENT DRAUGHTSMEN required, to carry out work on interesting developments in the field of Prefabricated Buildings and ancilliary elements covering a wide range of types of buildings in single and multi-storey constructions for Home and Overseas Markets. Good salary. Staff Pensions scheme, and excellent working conditions are offered to men with initiative and new ideas, having Structural, Architectural or General Engineering experience. Apply, giving details of age, experience, and qualifications, to the Personnel Manager, Bristol Aeroplane Co., Ltd., Buildings Division, Oldmixon, Weston-super-Mare. 4090

BIRMINGHAM office requires *immediately* qualified ASSISTANT or good INTERMEDIATE for Schools Projects. Office also busy on Industrial and Ecclesiastical work. Salary according to experience, but in the range of £400 to £600. Please reply, giving details of age, experience, and when free, to Box 4064.

ARMSTRONG SIDDELEY MOTORS require experienced ARCHITECTURAL ASSISTANTS for Works' Engineers Department. Capable of surveying, designing and detailing all types of industrial buildings, and with experience of factory services. Only first-class men need apply to: Reference HH.2/FRJ, Personnel Manager, Armstrong Siddeley Motors, Coventry. 4059

THE NUFFIELD FOUNDATION.
APPLICATIONS are invited for a post as ASSISTANT ARCHITECT on the staff of the Foundation's Division for Architectural Studies. Candidates should be Registered Architects and have had some experience of work on contemporary buildings. The selected candidate will be appointed at a commencing salary within the scale £600×£25 to £900, according to age and qualifications. He will be particularly concerned with working drawings for a number of experimental buildings, including hospitals, research laboratories and farm buildings.
Applications, giving age, qualifications, experience, and the names of two referees, should be sent to the Director of the Division for Architectural Studies, The Nuffield Foundation, Nuffield Lodge, Regent's Park, London, N.W.1, not later than 30th September, 1954. 4061

CHIEF ARCHITECTURAL ASSISTANT required, Glasgow office. Contemporary work. Experience essential. Salary required. Box 4065.

ASSISTANT required in West End office for Working Drawings Details and Specifications. Practical experience more important than qualifications. Box 4078.

FIRST-RATE DRAUGHTSMAN required for spare-time work tracing and re-lettering Architects' plans and details for reproduction. Must be neat, moderately quick and conscientious. Payment at 6s. an hour. Box 894.

ARCHITECT, OR EXPERIENCED ASSISTANT, REQUIRED BY ARCHITECTURAL WEEKLY. Ability to write fluently and well, and a sound knowledge of construction and contemporary building techniques, essential. Will be expected to write reports on buildings, supervise the production of technical architectural drawings, commission and sub-edit technical articles and assist production. 895

DESIGNER DRAUGHTSMAN required by shop fitting and exhibition contractors. Good previous experience essential in design presentation and working drawings. Box 4072.

ARCHITECTS in W.C.2 have vacancy for OFFICE JUNIOR with G.C.E., 16-17 years, for general duties. Opportunity to train as Architect. Apply, with details, Box 4079.

HIGH Wycombe firm of Architects requires ARCHITECTURAL ASSISTANT, preferably qualified. Salary according to experience. Write giving age and particulars to Box 4074.

JUNIOR ARCHITECTURAL ASSISTANT required in London, S.W.11. Neat and accurate draughtsman, with good knowledge of building construction. Reply stating salary required, age and experience. Box 4073.

ARCHITECTURAL ASSISTANT of near Intermediate standard with office experience required immediately for interesting and varied work in busy W.1 office. Please state experience and salary required. Box 4067.

A LONDON Firm with wide variety of design and construction, requires SENIOR ARCHITECTURAL ASSISTANT. Associate R.I.B.A. Fully experienced. Age 30/40. Box 4071.

TEMPORARY Assistance required in growing country practice. School training and attention to detail preferred before "experience" and slick draughtsmanship. The appointment is suitable for a student studying for Finals, and may lead, by mutual agreement, to a permanent position of trust and responsibility. Initial salary and subsequent increase, according to ability. Apply in writing, giving full particulars of age, education, etc., to Alec H. Joy, A.R.I.B.A., Northville Road, Kingsbridge, Devon. All applications will be answered. 4069

ACCURATE DRAUGHTSMAN required by West End Architect. Box 3975.

ARCHITECTURAL ASSISTANT required in West End office, Intermediate stage or near. Some experience of Industrial work preferred, but not essential. Please apply stating age, experience and salary required to: Huckle & Durkin, 30, Queen Anne Street, W.1, LANgham 4091. 4068

B.C. requires man, with first-class experience of building work, for post of CLERK OF WORKS. Duties include inspection and supervision of building work of transmitting stations and studio centres throughout U.K. Salary £645 (higher if qualifications exceptional), rising by five annual increments to £880 max. Requests for application forms to E.E.O., B.B.C., London, W.1, within 7 days, quoting ref. E.21 A.J. 4034

B.C. requires ARCHITECTURAL ASSISTANTS in London:—
(a) Grade I. Must be A.R.I.B.A., with considerable experience in building surveys, general planning and preparation of drawings, specifications, etc., for office-type buildings. Salary £870 (higher if qualifications exceptional), rising by five annual increments to £1,175 max.
(b) Grade III. Up to Final R.I.B.A. standard and with several years' design office experience. Salary £645 (higher if qualifications exceptional), rising by five annual increments to £880 max.
(c) Grade IV. Must have passed Inter. R.I.B.A. and have had at least two years' design office experience. Salary £545 (higher if qualifications exceptional), rising by five annual increments to £755 max.
Requests for application forms to E.E.O., B.B.C., London, W.1, within 7 days, quoting grade and ref. E.22 A.J. 4035

DRAUGHTSMAN wanted to assist Designer of Church, School and Domestic Woodwork Furniture and Interiors. State age, experience, and salary. Walker-Symondson, Ltd., Braintree Road, Ruislip. Tel.: Ruislip 2255. 4032

ASSISTANT urgently required in busy London office. Age about 25 years. Intermediate standard, at least two years' office experience essential. 4036

D. C. DENTON-SMITH & PARTNERS, Chartered Architects, Surveyors, of 40, Regent Street, Cambridge, and 5, Lynn Road, Ely, have vacancies for ARCHITECTURAL ASSISTANTS, qualified by examination or experience in connection with Local Authority and other Housing, Ecclesiastical, Agricultural and Industrial Buildings, etc. Applicants must be sufficiently competent to handle projects throughout with minimum supervision. Salaries up to £500, depending upon capabilities. Written applications, giving particulars, are invited. 4038

ARCHITECTURAL ASSISTANT, having a good office experience, and anxious to extend his knowledge, particularly of housing, both private and municipal. Good salary according to experience. Apply with full particulars to the Secretary, Bournville Village Trust, Estate Office, Bournville. 4039

DRAUGHTSMAN/LAND SURVEYOR required by S.W. London Estate Developers. Must be experienced levelling and chain-survey and able to drive. Interesting work for keen young man with initiative and ability to work with minimum supervision. Write giving full details and salary required to Box 4040.

APPLICATIONS for the appointment of SENIOR ASSISTANT ARCHITECT—A.P.T. VI should reach the Clerk of the Council, Town Hall, Willenhall, Staffs, not later than 30th September, 1954. Housing accommodation will be available and full particulars of appointment can be obtained from the Architect, Town Hall, Willenhall, Staffs. 4045



for architects visiting London

A POCKET GUIDE TO MODERN BUILDINGS IN LONDON by IAN McCALLUM. *'A most valuable compendium at a very low price . . . a great deal of information is compressed into the 100 little pages'.* T.P.I. JOURNAL. *Price 3s. 6d. net, postage 4d.*

LONDON NIGHT AND DAY illustrated by OSBERT LANCASTER. *"London Night and Day", the Architectural Press's guide for tourists and locals, among the wittiest, prettiest and most knowledgeable of its kind, informal yet immensely suave, like Sherlock Holmes in his dressing gown'.* VOGUE. *Price 5s. net, postage 4d.*

THE ARCHITECTURAL PRESS, 9-13 Queen Anne's Gate, Westminster, S.W.1.

ARCHITECTURAL ASSISTANT required; Intermediate Standard—Apply Gerald Lacoste, F.R.I.B.A., 39, Gordon Square, W.C.1. EUSton 8175. 4057

ARCHITECTURAL ASSISTANT up to Final R.I.B.A. standard, required in Reading Office of Chartered Architects. Applicants must be capable of making surveys, preparing working drawings, details, etc. Apply in writing giving full particulars, age and salary required to Box 4053.

GOOD Salary offered to keen ARCHITECTURAL ASSISTANT about Intermediate standard, for mainly domestic and industrial work in small North London office, in return for good draughtsmanship and experience in private office. Apply with brief details to Box 4054.

A BUSY Architects' Office in Central London engaged on City building schemes and other contemporary work, has vacancies for ASSISTANTS of R.I.B.A. Final and Intermediate standard. Good prospects for the right men. Apply Box 4056.

Architectural Appointments Wanted

EXPERIENCED ARCHITECT (48), London and tropics, all types of building, offers services, short period. Fee basis, or by arrangement. London Area. Box 3988.

SEN. ASSISTANT desires post, London or S.W. vicinity. Experienced surveys, sketches to complete drawings. Site supervision, reports, &c. Industrial, domestic and licensed premises. Salary £725. Box 3990.

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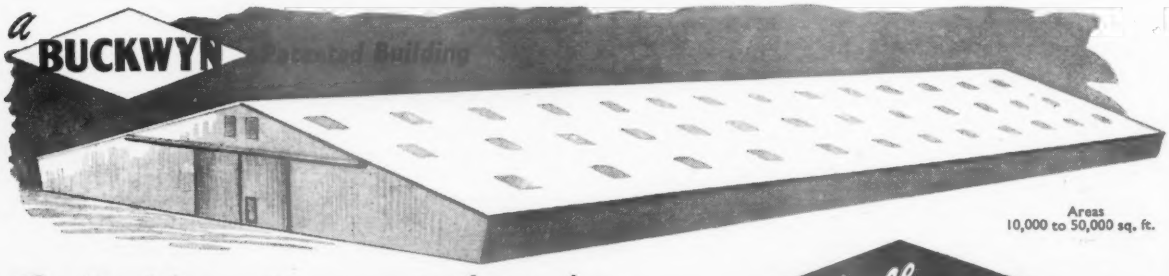
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Alphabetical Index to Advertisers

	PAGE
A.B.C.D. (Ravnes Park), Ltd.	l
Accordo Blinds, Ltd.	lxxxix
Airscrew Co. & Jicwood, Ltd.	xxiv
Allen, W. G., & Son (Tipton), Ltd.	xxxiv
Allied Guilds	ci
Aluminium Union, Ltd.	xxii
Anderson Construction Co., Ltd.	xlvii
Architectural Press, Ltd., The	xc, xcii, xcix, c, ci
Associated Fire Alarms, Ltd.	lxxxvi
Batley, Ernest, Ltd.	lxxxvii
Bennett (Pelmets), Ltd.	ci
Briggs, Wm., & Sons, Ltd.	lxxi
British Electricity Authority	xciii
British Engineering Brick Association, The	xxiii
British Insulated Callender's Cables, Ltd.	xii
British Lead Mills, Ltd.	li
British Plaster Board, Ltd., The	xlvi
Buckwyn Constructions, Ltd.	c
Catesby's Contracts & Export, Ltd.	lxxxii
Celotex, Ltd.	xxxviii
Chatwood Safe & Engineering Co.	lxxxvii
College of Estate Management, The	c
Colthurst-Symons & Co. ,Ltd.	xciv
Colt Ventilation, Ltd.	xxxiii
Colt, W. H. (London), Ltd.	lxviii
Copperad, Ltd.	lxx
Courtney, Pope, Ltd.	lxxviii
Crompton Parkinson, Ltd.	xlix
De La Rue & Co., Ltd., Thos	xl, xli
Denny, Mott & Dickson, Ltd.	lix
Docker Brothers	lv
Dorman, Long & Co., Ltd.	lxxii
Duresco Products, Ltd.	lxvi
Econa Modern Products, Ltd.	ciii
Edison Swan Electric Co., Ltd., The	lii
Ellis School of Architecture	ci
Ellison, George, Ltd.	ci
Esavian, Ltd.	lviii
Etchells, Congdon & Muir, Ltd.	lxxxiv
Evode, Ltd.	v
Falkirk Iron Co., Ltd., The	lxxvii
Federation of Coated Macadam Industries	xxxvi
"Fibonite" (Wm. Brandts Wallply), Ltd.	xc
Fibreglass, Ltd.	lxix
Finlock Gutters, Ltd.	xxxvii

	PAGE
Fisher & Ludlow, Ltd.	vi
Floor Renovations, Ltd.	xc
Ford & Walton, Ltd.	xv
Fox, Samuel & Co., Otd.	xliv
Frengers Ceilings, Ltd.	xxviii
Gas Council, The	lxxxiv
Gulf Radiators, Ltd.	lxv
Hall, John, & Sons (Bristol & London), Ltd.	lxxxviii
Hammer, Geo. M., & Co., Ltd.	lxvi
Hill, E. Aldam, & Co., Ltd.	lxiv
Hill, J. M., & Sons, Ltd.	lx
Holoplast, Ltd.	x
Hope, Henry, & Sons, Ltd.	lxxiv
Horseley Smith & Co. (Hayes), Ltd.	lxvii
Ilford, Ltd.	xxvi
Imperial Chemical Industries, Ltd.	xlii, xvii
Imperial Smelting Corporation (Sales), Ltd.	iii
International Paints, Ltd.	lxi
Jones & Broadbent, Ltd.	lxiii
King, Geo. W. Ltd.	xcv
Kinnell, Charles P., & Co., Ltd.	ci
Laing, John & Son, Ltd.	civ
Lamont, James H. & Co., Ltd.	xcvi
Lennox Foundry Co., Ltd.	ciii
Limmer & Trinidad Lake Asphalte Co., Ltd.	xciv
Lion Foundry Co., Ltd.	lxxxix
London Brick Co., Ltd.	—
McArd, Robert & Co., Ltd.	vii
McKechnie Brothers Ltd.	lii
Mallinson, Wm. & Sons Ltd.	lxxxv
Merchant Trading Co., Ltd.	xviii
Metallic Seamless Tube Co., Ltd., The	xci
Mills Scaffold Co., Ltd.	ii
Mitchell, Russell & Co., Ltd.	lxxxviii
M.K. Electric, Ltd.	viii
Monk A., & Co., Ltd.	xci
Newall's Insulation Co., Ltd.	xiv
Newman, William & Sons Ltd.	ix
Paragon Glazing Co., Ltd.	xcvi
Penfold Fencing & Engineering, Ltd.	lxxxvi
Permanite, Ltd.	xxii
Peters, G. D., & Co., Ltd.	xxx
Pilkington Bros. Ltd.	xx
Pitman, Sir Isaac, & Sons, Ltd.	xc
Prodorite, Ltd.	xciv

	PAGE
Pyrok, Ltd.	xxxix
Rawlplug Co., Ltd., The	lxxx
Richardson & Starling, Ltd.	ciii
Robertson Thain, Ltd.	xi
Rom River Co., The	xvi
Rownson, Drew & Clydesdale, Ltd.	cxi
Rubery Owen & Co., Ltd.	xlvi
Sankey, Joseph & Sons, Ltd.	xxxi
Sankey-Sheldon, Ltd.	lxxxi
Sebel Products, Ltd.	ci
Semtex, Ltd.	lxii
Shires & Co. (London), Ltd.	lxxix
Silexine Paints, Ltd.	xxi
Simplex Electric Co., Ltd.	xxxii
Smith, Samuel & Sons, Ltd.	lxxxvii
Smith, Thos. & Son, Ltd.	lxxxv
Sommerfelds, Ltd.	ci
Sound Diffusion, Ltd.	lxx
South Durham Steel & Iron Co.	xxv
Southern's, Ltd.	liii
Speedwell Gear Case Co.	lxxxiii
Spencer Lock & Co., Ltd. (Royal Board)	xxxv
Spirax-Sarco, Ltd.	lxxxi
Surrey Concrete (Shurderete), Ltd.	l
Taylor, R., & Co. (Ironfounders), Ltd.	lxxxiv
Teddington Industrial Equipment, Ltd.	lvi
Tenaplas (Sales), Ltd.	xcv
Thermacoust, Ltd.	xxix
Thompson, John (Beacon Windows), Ltd.	lvii
Thorn, J., & Sons, Ltd.	lxxxiii
Thorp, J. B. (Models)	ci
Timber Development Association, Ltd.	xlv
T.I.S. (Mansfield), Ltd.	ci
True Flue Ltd.	xix
Trussed Concrete Steel Co., Ltd.	lxxv
United Steel Companies, Ltd., The	xliv
Venetian Vogue, Ltd.	liv
Vulcanite, Ltd.	xciii
Walker Brothers, Ltd.	lviii
Walpamur Co., Ltd., The	xiii
Ward, Thos. W., Ltd.	xxvii
Warerite, Ltd.	ci
Wheatly & Co., Ltd.	xliii
Williams & Williams, Ltd.	xlviii
Wood, Edward & Co., Ltd.	iv
Zinc Alloy Rust Proofing Co., Ltd.	cii
Zinc Development Association	lxxvi

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Education, Legal Notices, Miscellaneous Property, and Land Sales, xcvii, xcviii, xcix, c.

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PAGE
xxix
lxxx
ciii
xi
xvi
cxi
xlvi
xxxi
xxxi
ci
lxii
xxix
xxi
xxxii
xxvii
xxxv
ci
lxx
xxv
liii
xxiii
xxxv
xxxi
l
xxiv
lvi
xcv
xxix
lvii
xxiii
ci
xlv
ci
xix
lxxv
xliv
liv
xciii
lviii
xiii
xxvii
ci
xliii
xlviii
iv
cii
lxxvi



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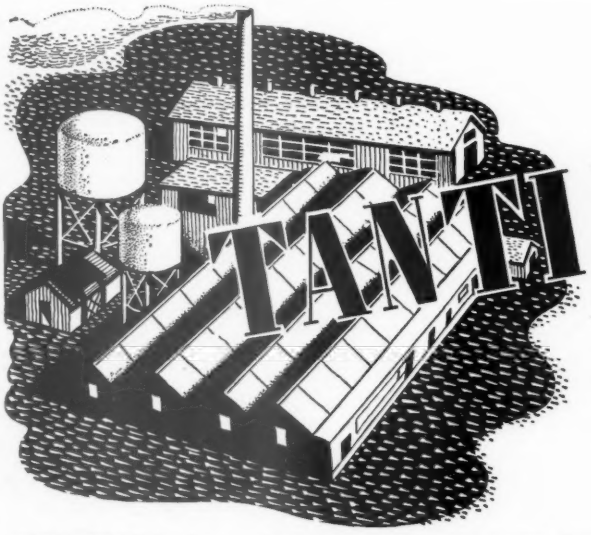
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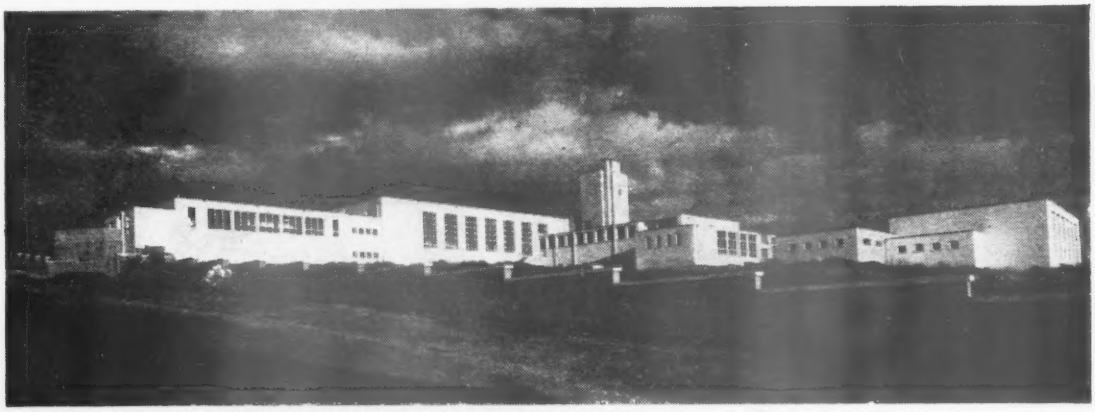
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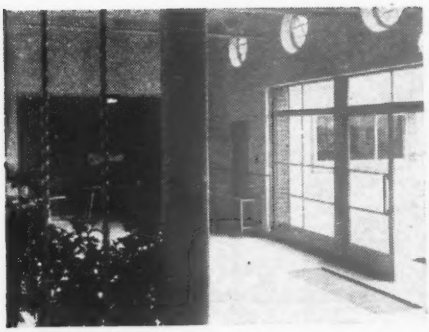


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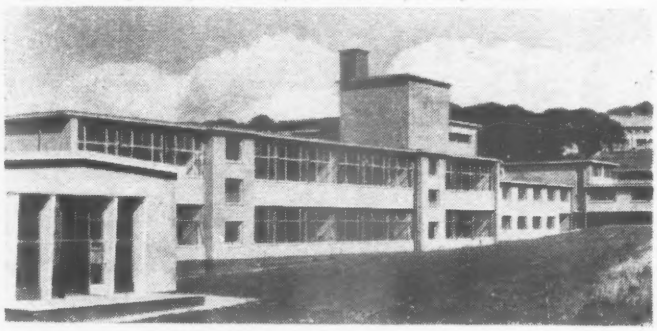
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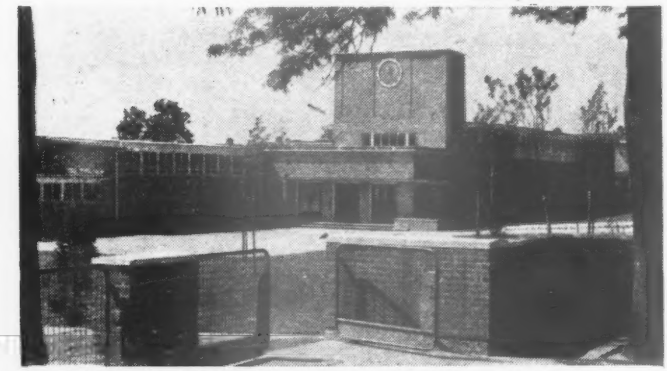
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Editorial illustrations engraved by THE ENGRAVERS' GUILD LTD., Windsor House, 23/26, Cursitor Street, London, E.C.4.